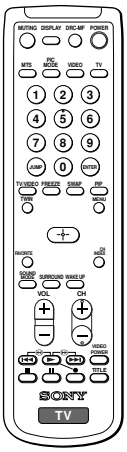
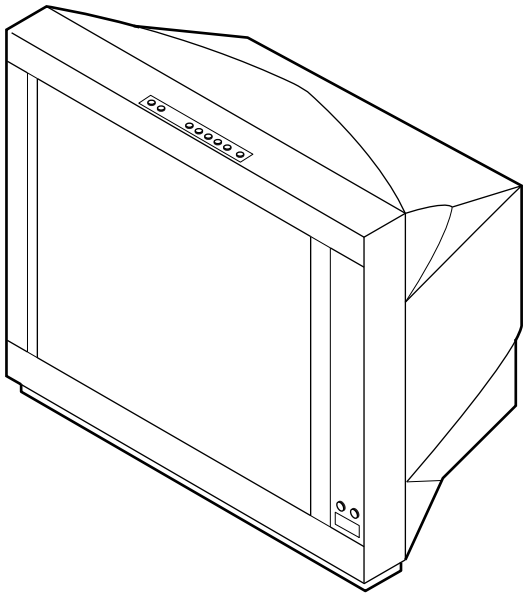
Self Diagnosis
Supported model

SERVICE MANUAL

AG3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-ES38N90	RM-958	Taiwan	SCC-P37C-A				





TRINITRON ® COLOR TV

SONY ®

SPECIFICATIONS

		Note
Power requirements	110 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	NTSC3.58, PAL*, PAL 60*, SECAM*, NTSC4.43* (*AV IN only)	
Stereo/Bilingual system	MTS	
Channel coverage	VHF: 2 to 13 / UHF: 14 to 69 / CATV: 1 to 125	
⅂⊢ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	
Number of terminal		
Video	Input: 4 Output: 1	Phono jacks; 1 V_{P-P}, 75 ohms
Audio	Input: 4 Output: 1	Phono jacks; 500 mVrms
S Video	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms
Component Video (DVD) IN	Input: 1	Phono jacks Y : 1 Vp-p, 75 ohms, sync negative C_B : 0.7 Vp-p, 75 ohms C_R : 0.7 Vp-p, 75 ohms Audio : 500 mVrms
DIGITAL IN	Input: 1	Phono jack; 0.5 Vp-p, 75 ohms
Headphones	Output: 1	Stereo minijack
Picture tube	38 inch	
Diagonal tube size	970 mm	
Diagonal screen size	911 mm	
Dimension (w/h/d, mm)	962 x 728 x 615 mm	
Mass	112 kg	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

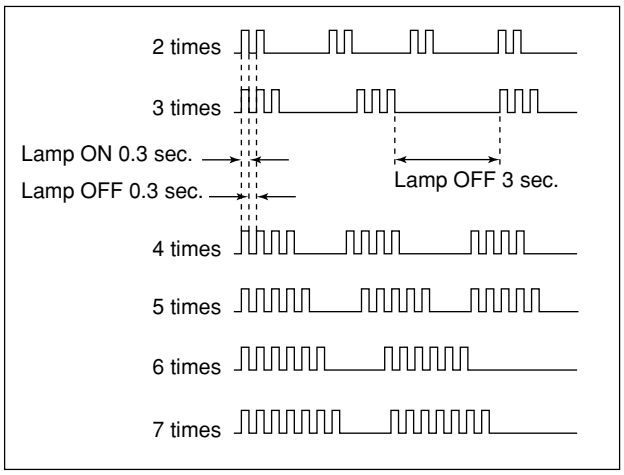
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/ Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	• H.OUT Q6807 is shorted. • H.IN Q6810 is shorted.	• Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	• PH 6602 faulty. • 10.5V is not supplied. (D board)	• Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~255	• V.OUT IC6800 faulty D6816 faulty D6817 faulty D6824 faulty R6852 open R6851 open	• Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001, 9002, 9003 are faulty. (C board) • IC8306 (J board) and IC4301 (E board) are faulty. • No connection E board to C board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	• C6831 is open circuit. • CN6101 (D1 board) is disconnected.	• H pulse output is too high.
• Audio Protection	7 times	007:000 or 007:001~225	• Power supply fails. • IC1203, IC1204 faulty	• There is picture but speaker does not release sound.
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

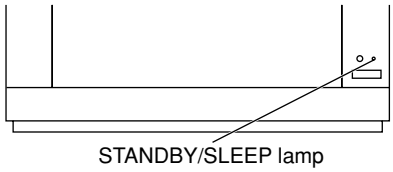
Note 1: Refer to screen (G2) Adjustment in section 4-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count*
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

* One flash count is not used for self-diagnostic.



3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

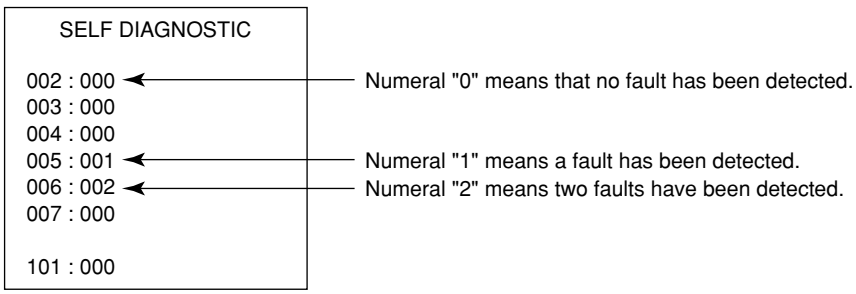
[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel 5 ➡ Sound volume - ➡ Power ON

⇧

Note that this differs from entering the service mode (mode volume +).

Self-Diagnosis screen display


SELF DIAGNOSTIC
002 : 000
003 : 000
004 : 000
005 : 001
006 : 002
007 : 000
101 : 000
Numeral "0" means that no fault has been detected.
Numeral "1" means a fault has been detected.
Numeral "2" means two faults have been detected.

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

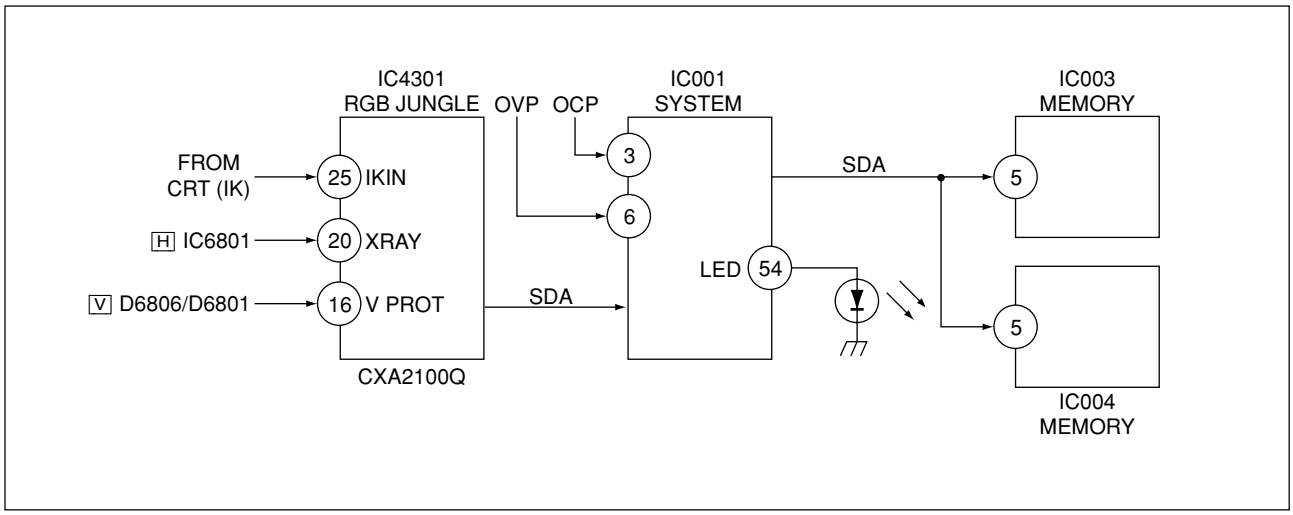
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT

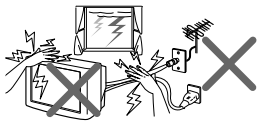


[+B overcurrent (OCP)]	Occurs when an overcurrent on the +B(135) line is detected by Q6610 and Q6609. If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to UP. The unit will automatically turn off.
[+B overvoltage (OVP)]	Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the voltage to pin6 of IC001 go to UP. The unit will automatically turn off.
[Vertical deflection failure]	Occurs when an absence of the vertical deflection pulse is detected by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power supply.
[White balance failure]	If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.
[High voltage protector of Horizontal Deflection]	Occurs when an overvoltage of horizontal pulse is detected by D6809 and IC6801. If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of IC4301 go to UP. The unit will automatically turn off.

The operating instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

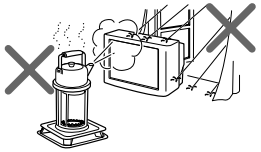
警告

- 本電視機內存在危險性高電壓。
- 電視機的操作電壓：110 伏特交流電壓。

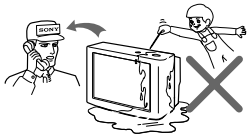


為了個人安全起見，雷雨期間，請勿觸摸電視機的任何部份、包括電源線和天線電纜。

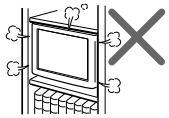
為了兒童安全起見，請勿讓他們獨自逗留在電視機旁。千萬別讓兒童攀爬本電視機。



為防止火災或觸電，請勿使本電視機被雨淋或受潮。

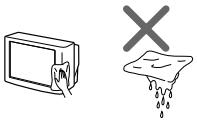


若有任何液體流入或固體落入本電視機內時，請勿操作本電視機。應立即請合格的專業人員檢查。



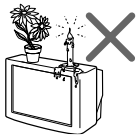
請勿堵塞本電視機的通風口。

請勿將本電視機放置於諸如書架或嵌入式壁櫥等封閉之處。

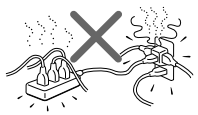


請用乾的軟布清潔本電視機。

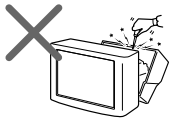
請勿使用汽油、稀釋劑或任何其它化學品清潔本電視機。請勿刮劃顯像管。



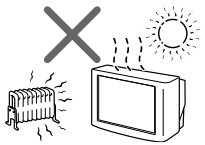
請勿放置任何物體於電視機上。



請勿在同一電源插座上插入太多的電器。請勿損壞電源線。



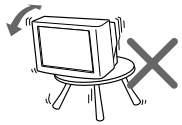
請勿打開本電視機的機殼和後蓋，因電視機內存在高電壓和危險性部件。須由合格的專業人員對電視機進行檢修或棄置。



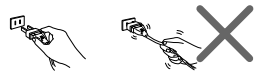
本電視機只適於家庭使用。請勿將本電視機放置於任何交通工具內或多塵、高溫、潮濕或震動頻繁之處。

SECTION 1
GENERAL

警告（續）



請將本電視機放置於所推荐的電視支架（SU-ES38G）或相同規格的電視支架上。請確認電視支架和地板是否穩定並足以支撐電視機的重量（112 公斤）。



捏住插頭將電源線拔開。請勿直接拉拔電源線。即使電視機已斷開電源，但只要電源線還在插座內，它仍接通至交流電源。若想移動本電視機或打算近期內不使用本電視機時，請將電源線拔開。

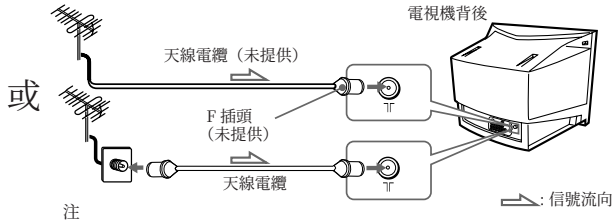
準備工作

注意
- 若未完成所有連接程序，請勿插入電源線；否則極少量的電流可能經天線或其它端子外泄。
- 若打算近期內不使用遙控器，請將電池取出，以避免電池泄漏而損壞遙控器。若您不小心觸及電池所泄漏的液體，應立即用水洗淨。

步驟 1

連接天線

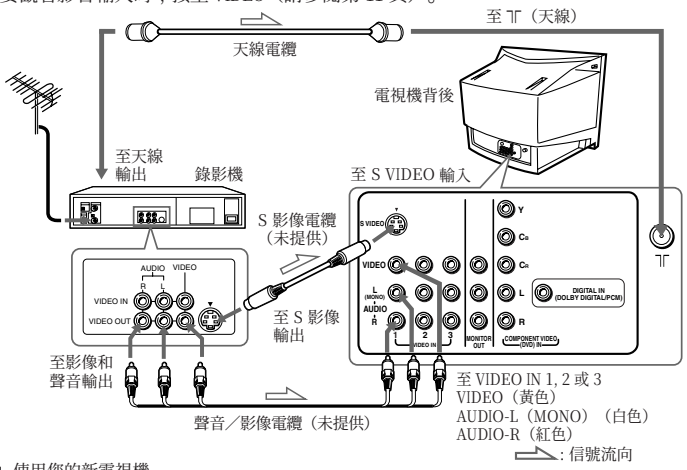
若您連接錄影機，則請參閱以下連接錄影機接線圖。



注
- 若輸入 ㄒ（天線）的信號非常微弱，畫面可能會自動轉為暗淡，而 “ 無信號 ” 即顯示於螢幕上。這並不表示發生故障。

連接錄影機

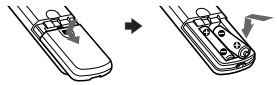
要觀看影音輸入時，按壓 VIDEO（請參閱第 11 頁）。



注
- 當您使用 VIDEO IN 1，2 或 3 插口，或電視機前面的 VIDEO 4 INPUT 插口時，您也可通過 “ 多系統視訊入端子 ” 接收 PAL, NTSC 和 SECAM 的影音信號。
- 若與單聲道錄影機相連接，則請將黃色插頭插至 VIDEO（黃色插口），而將黑色插頭插至 AUDIO- L（MONO）（白色插口）。
- 若將錄影機連接至 ㄒ（天線）插口，則請將錄影機輸出的信號預設至電視機上的頻道號碼 “ 0 ”。
- 當 S VIDEO 和 VIDEO IN 1 兩者相連接時，S VIDEO 即自動被選定。要收看 VIDEO IN 1 輸入的圖像，斷開 S 影像電纜即可。
- 當無信號從已連接的影像裝置輸入電視機時，電視機的螢幕即呈藍色。

步驟 2

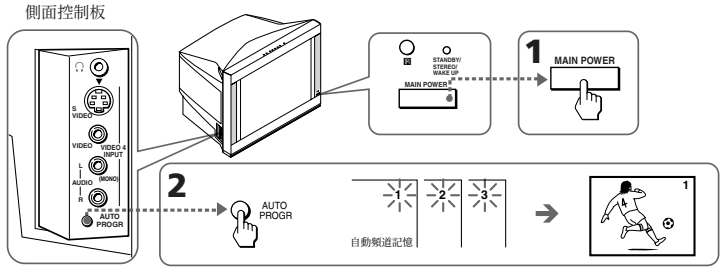
將電池裝入遙控器



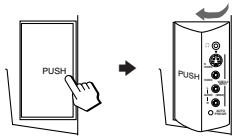
注
- 請勿使用舊電池或同時使用不同類型的電池。

步驟 3

自動預設頻道



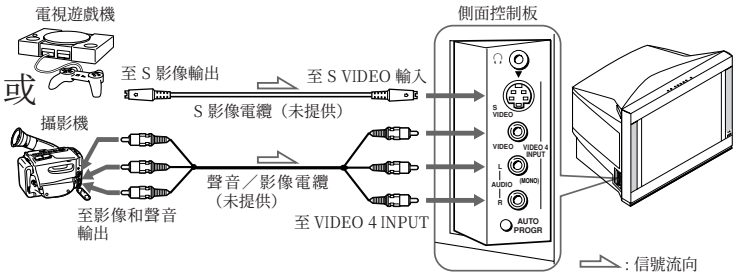
提示
- 要停止自動頻道預設時，按壓 MENU 鍵。
- 若您的電視已預設一個不想要的頻道或不能預設某一個頻道，您就必須手動預設頻道（請參閱第 40 頁）。
- 若要打開電視機的側面控制板，請輕按 “ PUSH ” 部直到您聽見滴答聲。



連接選購的裝置

本電視機可以與如錄影機、影碟機、攝影機、電視遊戲機或立體聲音響裝置等選購的聲音／影像裝置相連接。要觀看和操作所連接裝置的圖像時，請參閱第 11 頁和 24 頁。

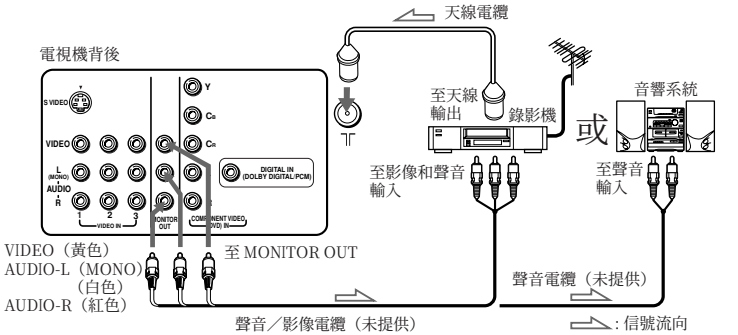
用 VIDEO 4 INPUT 插口與攝影機／電視遊戲機相連接



注

- 當連接電視遊戲機時，若您要調整適當的圖像設定以觀看電視游戲節目，則顯示“功能選擇”選單，然後在“電玩模式”中選擇“開”（請參閱第 35 頁）。
- 您也可將電視遊戲機連接至本電視機背後的 VIDEO IN 1，2，或 3 插口。
- 當 S VIDEO 和 VIDEO 4 INPUT 兩者相連接時，S VIDEO 即自動被選定。要收看 VIDEO 4 INPUT 輸入的圖像，斷開 S 影像電纜即可。

用 MONITOR OUT 插口與聲音／影像裝置相連接

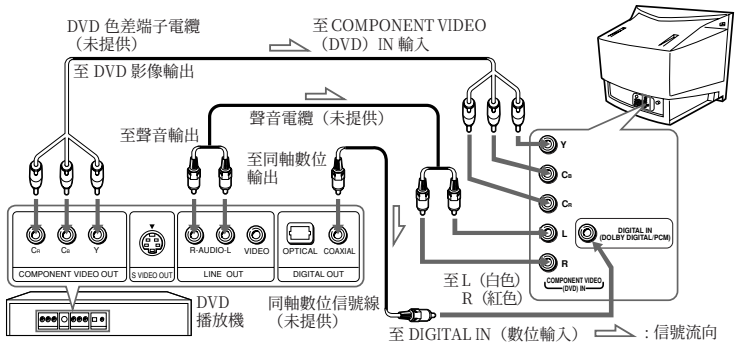


注

- 若您在電視螢幕上選擇“DVD”，MONITOR OUT 插口將不會輸出任何信號（請參閱第 11 頁）。

用 COMPONENT VIDEO（DVD）IN 插口與 DVD 播放機相連接

1 將電視機上的 COMPONENT VIDEO（DVD）IN 的 R（右）和 L（左）與 DVD 播放機上的 LINE OUT 的 AUDIO R（右）和 L（左）輸出插口連接起來。
2 用同軸數位信號線將電視機上的 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口連接至 DVD 播放機上的 DIGITAL OUT 的 COAXIAL 插口。
3 用 DVD 色差端子電纜將電視機上的 COMPONENT VIDEO（DVD）IN 的 Y，C_B 和 C_R 插口連接至 DVD 播放機上的 COMPONENT VIDEO OUT 的 Y，C_B 和 C_R 插口。
4 按壓遙控器或電視機上的 VIDEO 鍵直到“DVD”顯示在螢幕上。



注

- 當連接 DVD 播放機至電視機上的 COMPONENT VIDEO (DVD) IN 時，若您的 DVD 播放機可輸出隔行和逐行的掃描模式信號，則請選擇隔行掃描輸出。您的電視機可接收 525i/60 赫茲或 625i/50 赫茲的隔行掃描信號。
- 某些 DVD 播放機的插口可能標記不同：

連接	至（DVD 播放機上的）
Y（綠色）	Y
C_B（藍色）	C_b，B-Y 或 P_B
C_R（紅色）	C_r，R-Y 或 P_R

- 您必須連接電視機上的 COMPONENT VIDEO（DVD）IN 的 Y，C_B 和 C_R 插口以接收影像信號。同時，您也必須連接 DIGITAL IN 插口以接收數位聲音信號或 L（左）和 R（右）插口以接收模擬聲音信號（請參閱第 31 頁）。
- 當連接電視機上的 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口時，確定“影音選擇”選單顯示“數位音訊輸入：關”。當連接完成後，必須設定“數位音訊輸入：開”。當您還未完成 DIGITAL IN 插口的連接而將“數位音訊輸入”設定為“開”時，揚聲器將會突然產生噪音。這將會影響您的聽覺和損壞揚聲器（請參閱第 31 頁）。

續

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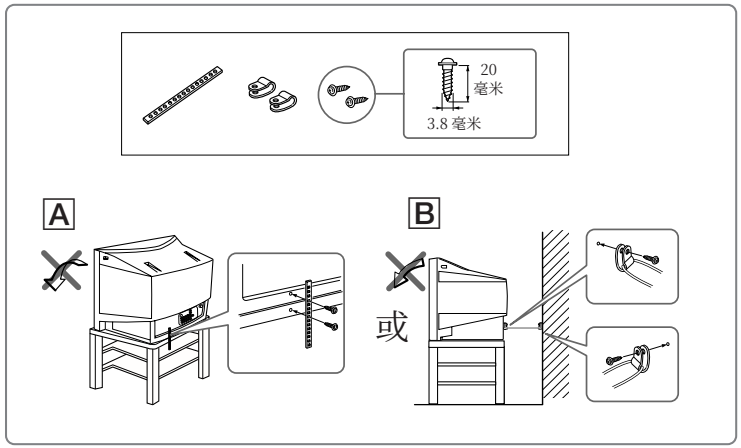
固定電視機

為防止電視機摔落，請採用下述方法之一將電視機固定：

A 將固定用的帶條，用所提供的螺釘按帶條上的孔安裝在電視機和其支架上。

或

B 用一根繩索或鏈條穿過夾子將電視機固定在牆上或柱子上。



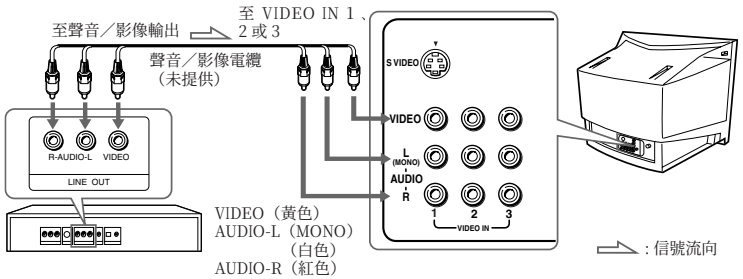
注

- 請僅使用提供的螺釘。使用其它螺釘可能會損壞本電視機。

連接選購的裝置（續）

用 VIDEO IN 1，2 或 3 插口與 DVD 播放機相連接

將電視機上的 VIDEO IN 1、2 或 3 AUDIO/VIDEO 插口與 DVD 播放機上的 LINE OUT 插口相連接。

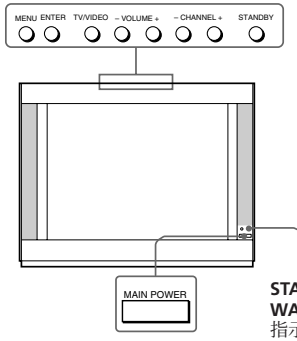


注

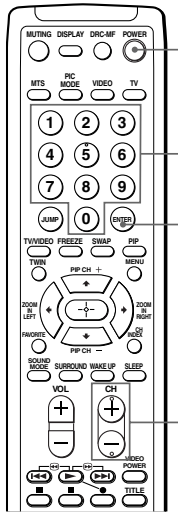
- 由於 DVD 碟片上的高質量螢幕包含許多信息，因此可能出現螢幕紊亂。在這種情形下，請調整“畫質模式”選單中的“調整”項目的“銳度”（請參閱第 30 頁）。
- 請將您的 DVD 播放機直接連接至您的電視機。若中間通過其它影像裝置連接 DVD 播放機，將導致不必要的螢幕紊亂。

觀看電視

本節說明觀看電視時所使用的功能和操作。大多數操作都可以用遙控器進行。



STANDBY/ WAKE UP 指示燈



POWER（電源）

數字鍵

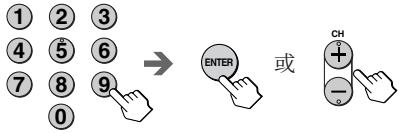
ENTER

CH +/–（頻道）

1 按壓 MAIN POWER 鍵以接通電視機電源。

當電視機處於待機狀態時（電視機上的 STANDBY 指示燈呈紅色亮光），按壓遙控器上的 POWER（電源）鍵或電視機上的 STANDBY 鍵。

2 要選擇頻道號碼時，按壓數字鍵後再按壓 ENTER 鍵，或直接按壓 CH **+/–**（頻道）鍵。



提示

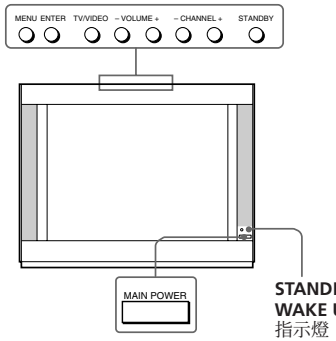
- 當您打開電視機時，頻道號碼或影音輸入將被顯示在螢幕上大約 40 秒。與此同時，若您將“功能選擇”選單中的“省電模式”設定為“開”，省電模式符號（ ）也將被顯示在螢幕上（請參閱第 35 頁）。

要快速選擇某一個頻道號碼時

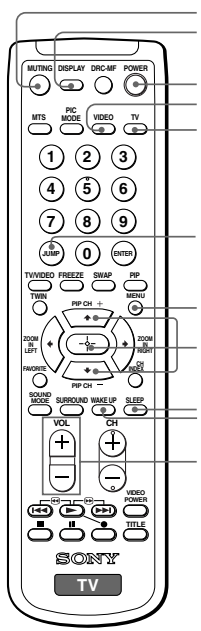
(1) 持續按壓 CH +/–（頻道）鍵。
(2) 當您所要的頻道號碼顯示時，停止按壓 CH +/–（頻道）鍵。

注

- 當您快速選擇某一個頻道號碼時，圖像可能會失真。這並不表示發生故障。



STANDBY/ WAKE UP 指示燈



MUTING（靜音）
DISPLAY（顯示）
POWER（電源）
VIDEO（影音）
TV（電視）
JUMP
MENU（目錄）
SLEEP（睡眠定時）
WAKE UP（開機定時）
VOL +/–（音量）

附加操作

要	按壓
暫時切斷電視機的電源	POWER（電源）鍵。 電視機上的 STANDBY 指示燈呈紅色亮光。
完全切斷電視機的電源	電視機上的 MAIN POWER 鍵。
調整音量	VOL +/–（音量）鍵。
消除聲音	MUTING（靜音）鍵。
觀看影音輸入 （錄影機、攝影機等）	VIDEO（影音）鍵（或電視機上的 TV/VIDEO 鍵）以選擇“影音輸入 1”、“影音輸入 2”、“影音輸入 3”、“影音輸入 4”或“DVD”。 要回到電視節目時，按壓 TV（電視）鍵（或電視機上的 TV/VIDEO 鍵）。
跳回到之前收看的頻道號碼	JUMP 鍵。
顯示螢幕上的信息*	DISPLAY（顯示）鍵。

* 螢幕上即顯示圖像、聲音以及頻道號碼或影音輸入的信息。螢幕上的圖像和聲音設定在顯示約三秒後自動消失。

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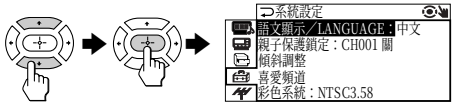
觀看電視（續）

改變選單語言

您可改變選單語言和螢幕語言。有關如何使用選單的詳細情況，請參閱第 26 頁的介紹選單系統。

1 按壓 MENU（目錄）鍵。

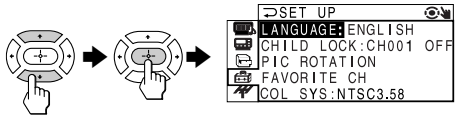
2 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 系統設定 ”符號（🧰），然後按壓 ⊕ 鍵。



3 確認“ 語文顯示／LANGUAGE ”已被選擇，然後按壓 ⊕ 鍵。

4 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的語言（例如，“ ENGLISH ”），然後按壓 ⊕ 鍵。

被選擇的選單語言將顯示在螢幕上。



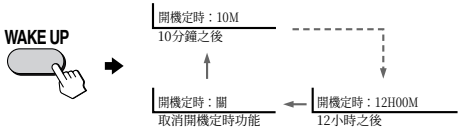
要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

設定開機定時器

1 按壓 WAKE UP（開機定時）鍵直到您所指定的時間顯示在螢幕上。

一旦時間被設定，開機定時器立即啟動。



2 選擇當您醒來時所要觀看的頻道號碼或影音輸入。

3 若您要電視機自動切斷電源，請按壓 POWER（電源）鍵或設定睡眠定時功能。

電視機上的 WAKE UP 指示燈即發出橙色亮光。

要取消開機定時器時

按壓 WAKE UP（開機定時）鍵直到“ 開機定時：關 ”顯示在螢幕上，或切斷電視機的主電源。

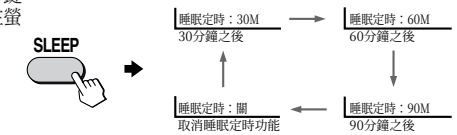
注

- 用開機定時器接通電視機電源並超過兩小時後，若您不按壓電視機或遙控器上的任何一個按鍵或控制鍵，則電視機再進入待機狀態。要恢復觀看電視時，按壓電視機或遙控器上任何一個按鍵或控制鍵即可。

設定睡眠定時器

按壓 SLEEP（睡眠定時）鍵直到您所指定的時間顯示在螢幕上。

一旦時間被設定，睡眠定時器立即啟動。

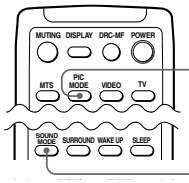


要取消睡眠定時器時

按壓 SLEEP（睡眠定時）鍵直到“ 睡眠定時：關 ”顯示在螢幕上，或切斷電視機電源。

選擇畫質和音效模式

您可選擇畫質和音效模式並使用“ 使用者 ”模式來調整您所偏好的設定。

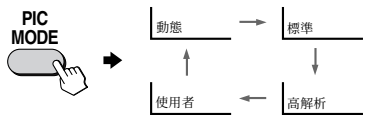


PIC MODE
（畫質模式）

SOUND MODE
（音效模式）

選擇畫質模式

重復按壓 PIC MODE（畫質模式）鍵直到您所要的畫質模式被選定。



選擇	以
“ 動態 ”	觀看對比度強的圖像。
“ 標準 ”	觀看普通的圖像。
“ 高解析 ”	觀看更高的密度和柔和對比的圖像。
“ 使用者 ”	接收“ 影音選擇 ”選單中的“ 調整 ”項目所調整的最終圖像設定（請參閱第 30 頁）。

選擇音效模式

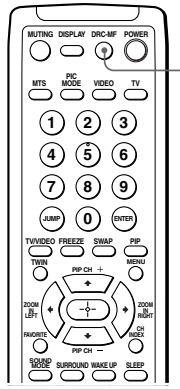
重復按壓 SOUND MODE（音效模式）鍵直到您所要的音效模式被選定。

選擇	以
“ 動態 ”	收聽強調低和高音調的動態及清晰音響。
“ 戲劇 ”	收聽強調人聲和高音調的聲音。
“ 柔和 ”	收聽柔和的聲音。
“ 使用者 ”	接收在“ 影音選擇 ”選單中的“ 調整 ”項目所調整的最終音響設定（請參閱第 30 頁）。

提示
- 您也可使用選單設定畫質和音效模式（請參閱第 29 頁的改變“ 影音選擇 ”設定）。

觀看高素質圖像
— “ DRC-MF ”

“ DRC-MF ”功能可讓您享受高素質的電視圖像。您可選擇“ DRC4倍密 ”以觀看超真實（更高的密度）圖像，或選擇“ DRC PROGRESSIVE ”以減少螢幕的跳動。



DRC-MF

重復按壓 DRC-MF 鍵直到您收到滿意的圖像素質。

選擇	以
“ DRC4倍密 ”	觀看更高的密度的圖像。
“ DRC PROGRESSIVE ”	減少螢幕上某些部份或掃描線條的跳動（例如，在字母或物體邊沿上）。

提示
- 您也可使用選單以選擇“ DRC-MF ”的項目（請參閱第 29 頁的改變“ 影音選擇 ”設定）。
- 當廣播信號微弱時，螢幕上也許會出現少許的圓點或會產生噪音。要減低干擾時，顯示“ 影音選擇 ”選單以在“ 畫質模式 ”中選擇“ 調整 ”，然後調整“ 銳度 ”以減低鮮明度（請參閱第 30 頁）。

注
- 您無法在“ 頻道索引 ”、“ 喜愛頻道 ”、“ 電玩模式 ”、“ 子母畫面 ”或“ 雙畫面 ”功能打開時選擇“ DRC-MF ”模式。

DRC-MF 的標識（DRC-MF Digital Reality Creation）和“ DRC-MF ”是 Sony Corporation 的注冊商標。

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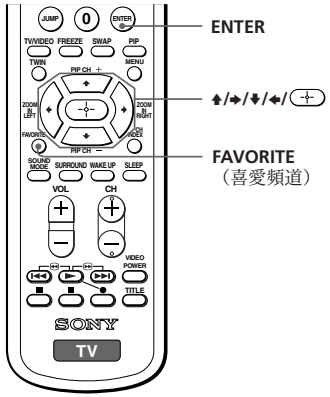
收看您的喜愛頻道

— “ 喜愛頻道 ”

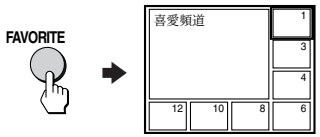
您可簡易快速的在電視螢幕上顯示和選擇七個喜愛頻道。

用數字鍵最後選取的七個頻道以 “ 自動設定 ” 模式顯示在螢幕上，您可用 “ 喜愛頻道 ” 選單中的 “ 手動設定 ” 模式以設定您自己的喜愛頻道。（請參閱第 38 頁的輸入喜愛頻道）。

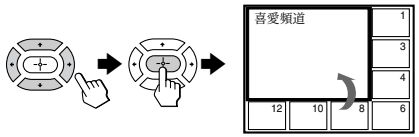


選擇喜愛頻道

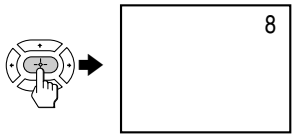
1 按壓 FAVORITE（喜愛頻道）鍵。



2 按壓 ↑，→，↓ 或 ← 鍵以選擇所要的頻道號碼（例如，頻道號碼 8），然後按壓 ⊕ 鍵。



3 再次按壓 ⊕ 鍵。



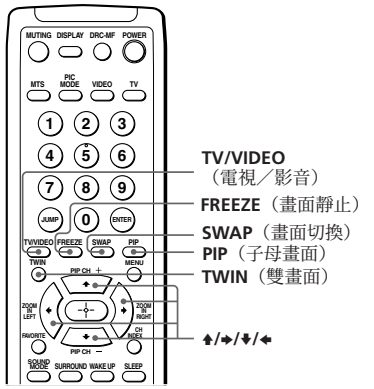
注

- 若您第一次使用喜愛頻道功能，七個已被預設的喜愛頻道將顯示在螢幕上。

同時觀看兩個節目

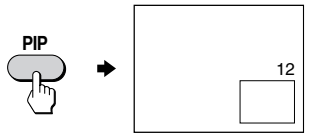
— “ 子母畫面 ”，“ 雙畫面 ”

用子母畫面或雙畫面功能，您可在一個主螢幕中或主螢幕旁邊顯示一個不同頻道號碼或影音輸入。



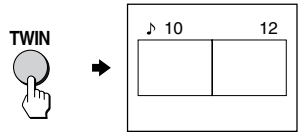
顯示子母畫面螢幕

按壓 PIP（子母畫面）鍵。



顯示雙畫面

按壓 TWIN（雙畫面）鍵。



要回到普通螢幕顯示時

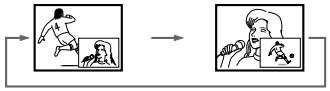
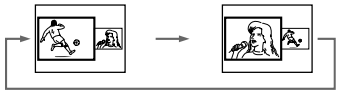
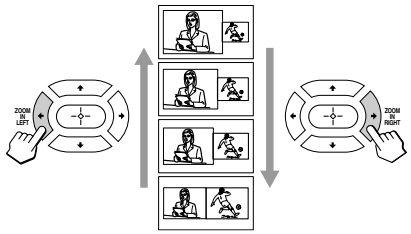
按壓 PIP（子母畫面）鍵（當顯示子母畫面螢幕時）或 TWIN（雙畫面）鍵（當顯示雙畫面時）。

提示

- 您也可使用選單顯示子母畫面螢幕或雙畫面，以及操作選單中的部份功能（請參閱第 32 頁的改變 “ 複分格畫面 ” 設定）。

續

附加的子母畫面／雙畫面操作

要	按壓
改變子畫面螢幕中的頻道號碼或雙畫面右邊的頻道號碼	▲ 或 ▼ 鍵。
選擇子畫面螢幕中的影音輸入或雙畫面右邊的影音輸入	◔ 鍵。
切換主螢幕與子畫面螢幕的圖像	SWAP（畫面切換）鍵。 
靜止子畫面螢幕	FREEZE（畫面靜止）鍵。 要使螢幕活動起來，再次按壓此鍵。
切換雙畫面中的右螢幕和左螢幕	SWAP（畫面切換）鍵。 
改變雙畫面的螢幕尺寸	◀ 鍵（左螢幕放大）以增大左螢幕的尺寸。 ▶ 鍵（右螢幕放大）以增大右螢幕的尺寸。 

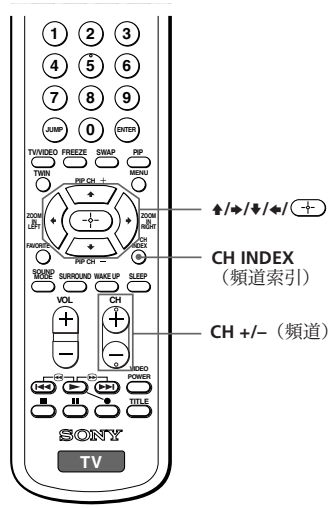
注

- 處於雙畫面模式時 FREEZE（畫面靜止）鍵不起作用。
- 當您在子畫面螢幕上以快／慢速度顯示影音輸入圖像時，圖像可能會受干擾，這取決於錄影機的情況。
- 若您在主螢幕上和子畫面螢幕上顯示不同的彩色系統，則子畫面螢幕的尺寸可能會不同，而且子畫面螢幕的圖像可能會受干擾。這並不表示電視機發生故障。
- 在雙畫面螢幕中，您僅可操作和聽到左邊的主螢幕的聲音（♪顯示在螢幕上）。
- 當按壓 TWIN（雙畫面）鍵時，在雙畫面顯示之前，電視螢幕會閃爍或呈現空白約 1 秒。這並不表示電視機發生故障。

顯示多種節目

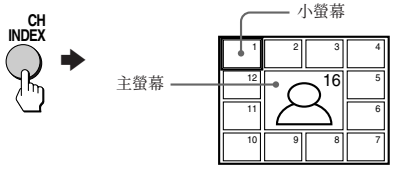
— “ 頻道索引 ”

頻道索引功能可顯示所有預設的頻道號碼，以及直接選擇顯示在十二個或七個小螢幕上的頻道號碼。

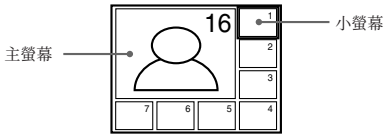


按壓 CH INDEX（頻道索引）鍵。

最先預設的十二個頻道號碼即順著時針方向從左上角按照次序顯示在螢幕上。



當預設的頻道號碼數量少過於八個時，最先預設的七個頻道號碼將順著時針方向從右上角按照次序顯示在螢幕上。



提示

- 當處於雙畫面模式時按壓 CH INDEX（頻道索引）鍵，左螢幕將成為頻道索引模式的主螢幕。

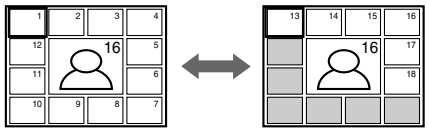
續

顯示多種節目（續）

要收看之後或之前的十二個預設頻道號碼時

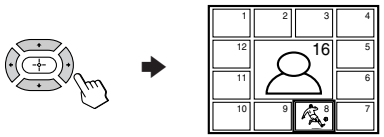
當預設的頻道號碼數量超過十二個時，此功能才起作用。

按壓遙控器上的 CH +/–（頻道）鍵或電視機上的 CHANNEL +/– 鍵。

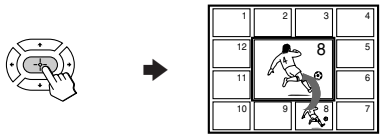


要從小螢幕直接選擇想收看的頻道號碼時

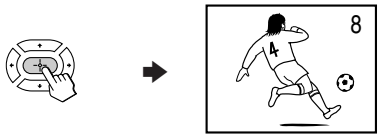
1 按壓 ↑，→，↓ 或 ← 鍵以選擇您所要收看的頻道號碼。



2 按壓 ⊕ 鍵。



3 再次按壓 ⊕ 鍵。



提示

• 您可按壓數字鍵以直接顯示頻道號碼。

要回到普通螢幕顯示時

再次按壓 CH INDEX（頻道索引）鍵，或：

1 從 “ 複分格畫面 ” 選單中選擇 “ 頻道索引 ” 。

2 按壓 ⊕ 鍵。

提示

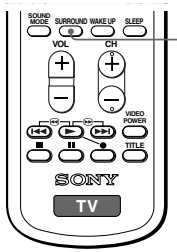
• 您也可使用選單顯示多個頻道號碼（請參閱第 32 頁的改變 “ 複分格畫面 ” 設定）。

注

• 當顯示多個頻道號碼時，僅可聽到主螢幕的聲音。

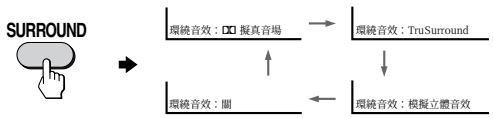
收聽環繞音效

環繞音效功能可使您欣賞音樂廳或電影院的音響效果。



SURROUND（環繞音效）

重復按壓 SURROUND（環繞音效）鍵至接收到您所想收聽的環繞音效。



選擇	要
“ DD 擬真音場 ”	收聽編碼杜比*環繞音效。
“ TruSurround ”	收聽傳遍整個房間的環繞音效。
“ 模擬立體音效 ”	收聽模擬立體聲的單聲道音響。
“ 關 ”	關閉環繞音效。

提示

- 您也可使用選單選擇環繞音效（請參閱第 29 頁的改變 “ 影音選擇 ” 設定）。

注

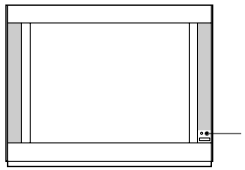
- 這個型號的虛擬杜比環繞音效是由 Dolby Digital, Dolby Pro Logic 和 TruSurround 組成的。
- 當電視機背後的 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口接收到杜比數位信號時，而且 “ 影音選擇 ” 選單顯示 “ 數位音訊輸入：開 ” 您才可享用 “ DD 擬真音場 ”（請參閱第 7 和 29 頁）。
- 當使用電視機背後的 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口時，所接收的環繞音效模式將隨著數位信號類型而定 。
- “ 模擬立體音效 ” 使用 SRS（單聲道） 。

* 經杜比實驗證明公司授權製造。
杜比，DOLBY 雙 D 標章 DD 及 PRO LOGIC 為杜比實驗證明公司之商標。

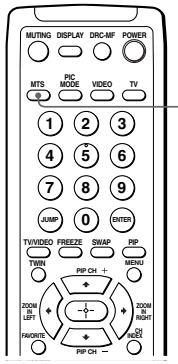
“ **TruSurround**™ ” 是 SRS Labs, Inc.的注冊商標。SRS 及 SRS 的標識是 SRS Labs, Inc. 在美國及一些經特選的外國注冊登記過的商標。SRS 及 TruSurround 科技是登記在 SRS Labs, Inc. 特許證下，並受到美國專利號碼 4,748,669 和 4,841,572, 以及許多補充發佈的和正待發佈的外國專利保護。”

欣賞立體聲或雙語言節目

您可欣賞 MTS（音聲多重）立體聲製式的立體聲音響或雙語言節目。



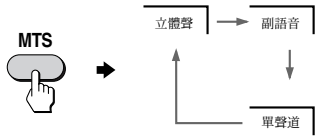
STEREO 指示燈



MTS（音聲多重）

重復按壓 MTS （音聲多重）鍵至接收到您想收聽的音響。

屏幕顯示會變化以顯示所選擇的聲音。
當接收到任何立體聲節目時，電視機上的 STEREO 指示燈即呈紅色亮光。



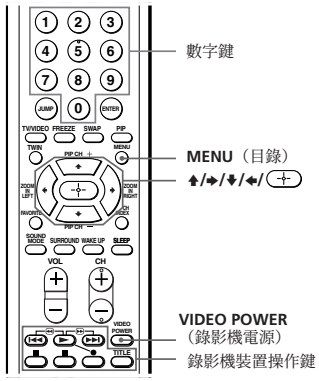
選擇	以
“ 立體聲 ”	收聽立體聲。
“ 副語音 ”	收聽雙語言節目。
“ 單聲道 ”	接收單聲道的聲音。

注

- 當選擇副語音時，非副語音節目的聲音將會與立體聲相似。
- 當信號微弱時，“ 副語音 ” 或 “ 立體聲 ” 的聲音可能會不正常。要改善聲音，選擇 “ 單聲道 ”。

使用選購的裝置

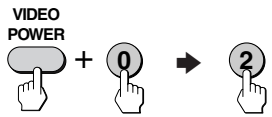
您可使用提供的遙控器操作 Sony 影像裝置如 Beta 錄影機、8mm 錄影機、VHS 錄影機、影碟機、鐳射唱機或 DVD 播放機等。



設定遙控器，使其能夠操作相連裝置

當按壓 VIDEO POWER（錄影機電源）鍵的同時再按壓一個數字鍵以輸入該裝置的代碼號。（請參閱下表）

例如：要操作一台 Sony 8mm 盒式錄影機時：



Sony 影像裝置代碼號

要操縱	按壓 VIDEO POWER 鍵並按壓
DVD	00
VTR1 (Beta)	01
VTR2 (8mm)	02
VTR3 (VHS)	03
MDP	04
CD	06
MD	07

注

- 若您的影像裝置配有 COMMAND MODE （命令模式）選擇器，則請將該選擇器設定與設定代碼一樣的位置。
- 若影像裝置不具備這種功能，則遙控器上的相應按鍵將不起作用。

用遙控器操作錄影機

要	按壓
打開／關閉	VIDEO POWER（錄影機電源）
錄影	► 鍵的同時按壓 ● 鍵。
播放	► 鍵
停止	■ 鍵
快進 (▶▶)	▶▶I 鍵
倒帶 (◀◀)	I◀◀ 鍵
暫停	II 鍵 再次按壓此鍵以恢復普通播放。
向前 (▶▶)或向後 (◀◀) 尋找圖像	▶▶I 鍵或 I◀◀ 鍵。 鬆開此鍵以恢復普通播放。

用遙控器操作 DVD 播放機

要	按壓
打開／關閉	VIDEO POWER（錄影機電源）
播放	► 鍵
停止	■ 鍵
暫停	II 鍵 再次按壓此鍵以恢復普通播放。
搜索磁帶的不同片段	▶▶I 鍵向前搜索或 I◀◀ 鍵向後搜索。
顯示標題選單	TITLE（標題）鍵
顯示選單	MENU（目錄）鍵的同時按壓 ● 鍵。
選擇選單項目	↑/↓/←/→ 鍵的同時按壓 ● 鍵。

用遙控器操作鐳射影碟機

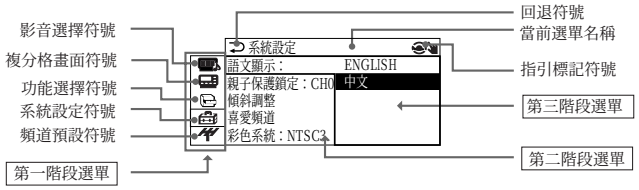
要	按壓
打開／關閉	VIDEO POWER（錄影機電源）
播放	► 鍵
停止	■ 鍵
暫停	II 鍵 再次按壓此鍵以恢復普通播放。
搜索磁帶的不同片段	▶▶I 鍵向前搜索或 I◀◀ 鍵向後搜索。

用遙控器操作 CD/MD

要	按壓
打開／關閉	VIDEO POWER（錄影機電源）
播放	► 鍵
停止	■ 鍵
暫停	II 鍵 再次按壓此鍵以恢復普通播放。
進入下一首／前一首樂曲	▶▶I 或 I◀◀ 鍵
在一首樂曲中快速向前 (▶▶)／ 快速倒退 (◀◀)	▶▶I 或 I◀◀ 鍵的同時按壓 ► 鍵。

介紹選單系統

MENU 按鍵可使您顯示選單和改變您電視機的設定。下面是選單系統的總概況。



第一階段	第二階段	第三階段／功能
“影音選擇”	“DRC-MF”	選擇 DRC-MF 模式： “DRC4倍密” → “PROGRESSIVE”
	“畫質模式”	選擇畫質模式： “動態” → “標準” → “高解析” → “使用者” → “調整”
	“調整”	調整“使用者”項目： “對比” → “彩色” → “亮度” → “色相” → “銳度”
	“音效模式”	選擇音效模式： “動態” → “戲劇” → “柔和” → “使用者” → “調整”
	“調整”	調整“使用者”項目： “低音” → “高音” → “平衡” → “BBE”*
	“環繞音效”	選擇環繞音效模式： “ 擬真音場” → “TruSurround” → “模擬立體音效” → “關”
	“數位音訊輸入”	啟動或取消電視機背後的數位聲音輸入插口。
“複分格畫面”	“子母畫面”	顯示主螢幕中的子畫面螢幕。
	“子畫面位置”	改變小螢幕的位置。
	“畫面切換”	切換主螢幕與子畫面螢幕的圖像。
	“雙畫面”	顯示主螢幕旁邊的頻道號碼或影音輸入。
	“頻道索引”	同時顯示所有預設的頻道號碼。
“功能選擇”	“寬螢幕模式”	改變圖像的尺寸。
	“省電模式”	節省電能。
	“電玩模式”	調整圖像以觀看電視遊戲節目。

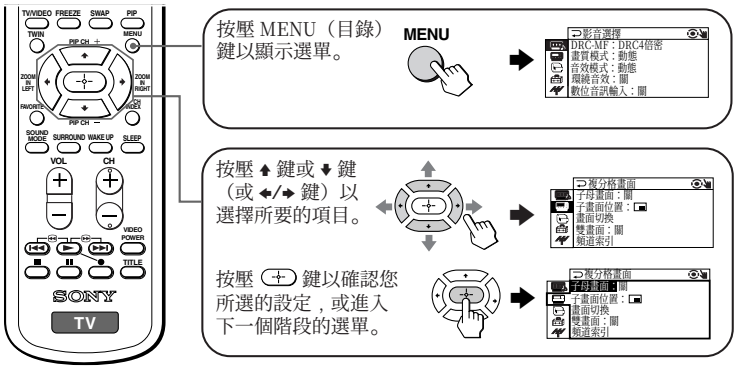
第一階段	第二階段	第三階段／功能
“系統設定”	“語文顯示/ LANGUAGE”	改變選單語言： “ENGLISH”（英文） → “中文”
	“親子保護鎖定”	鎖定特定頻道號碼。
	“傾斜調整”	旋轉圖像。
	“喜愛頻道”	設定喜愛頻道。
	“彩色系統”	選擇彩色系統： “自動切換” → “PAL” → “SECAM” → “NTSC3.58” → “NTSC4.43”（僅於影音模式）
“頻道預設”	“自動頻道記憶”	自動預設頻道。
	“有線電視”	選擇“開”以觀看有線電視。
	“記憶／刪除”	手動預設頻道。
	“ 敏感度”	調整電視接收敏感度。

* BBE 是 Sony 公司經 BBE 音響公司獲准後生產的並應用了美國專利號碼 No.4,638,258 和 No.4,482,866。“BBE”這詞與 BBE 這符號是 BBE 音響公司的商標。

續

介紹選單系統（續）

如何使用選單



其它選單操作

要	按壓
調整設定值	↑/← 鍵或 ↓/→ 鍵。
回到之前或進入下一個階段的選單	→ 鍵或 ← 鍵。
取消選單	MENU（目錄）鍵。

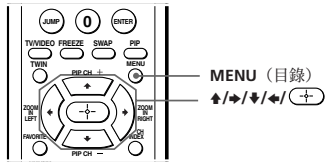
提示

- 要從第二階段選單回到第一階段選單時，則按壓 ↑ 鍵或 ↓ 鍵直到回退符號（⮌）被選中，然後按壓 ⊕ 鍵。
- 電視機上的 MENU 鍵、ENTER 鍵和 VOLUME +/– 鍵也可用作上述操作。

注

- 若兩次輸入之間的時間超過 60 秒則選單將會從螢幕上自動消失。

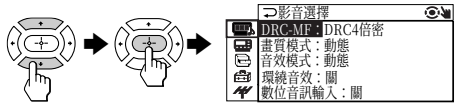
改變“ 影音選擇 ”設定



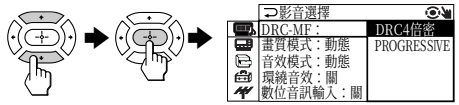
“ 影音選擇 ” 選單可使您調整圖像和音響設定。

1 按壓 MENU（目錄）鍵。

2 確認“ 影音選擇 ” 符號（）已被選擇，然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“ DRC-MF ”），然後按壓 ⊕ 鍵。



選擇	以
“ DRC-MF ”	選擇“ DRC4倍密 ” 或“ PROGRESSIVE ”。
“ 畫質模式 ”	選擇“ 動態 ”、“ 標準 ”、“ 高解析 ”、“ 使用者 ” * 或“ 調整 ”。
“ 音效模式 ”	選擇“ 動態 ”、“ 戲劇 ”、“ 柔和 ”、“ 使用者 ” * 或“ 調整 ”。
“ 環繞音效 ”	選擇“ ◻◻ 擬真音場 ”、“ TruSurround ”、“ 模擬立體音效 ” 或“ 關 ”。
“ 數位音訊輸入 ”	選擇“ 開 ” 或“ 關 ”。

* 當選擇“ 使用者 ” 模式時，您可接收到最後一次在“ 調整 ” 模式中所調整的圖像或聲音設定（請參閱第 30 頁）。

提示

- 有關“ DRC-MF ”、“ 畫質模式 ” ／“ 音效模式 ”、“ 環繞音效 ” 和 “ 數位音訊輸入 ” 的選擇項目的詳情，請分別參閱第 15、14、22 和 31 頁。

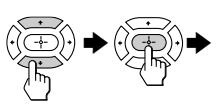
要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

續

調整“畫質模式”下的“調整”項目

1 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“彩色”），然後按壓 ⊕ 鍵。



2 按照下表調整項目值，然後按壓 ⊕ 鍵。

項目	按壓 ↓/← 鍵以	按壓 ↑/→ 鍵以
“對比”	降低圖像對比度	提高圖像對比度
“彩色”	減低彩色濃度	增加彩色濃度
“亮度”	降低圖像亮度	提高圖像亮度
“色相”*	使圖像色調增強紅色	使圖像色調增強綠色
“銳度”	使圖像柔和	使圖像鮮明

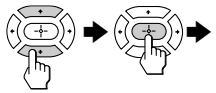
* 只有 NTSC 彩色系統能讓您調整“色相”。

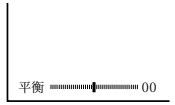
3 重復上述步驟操作以調整其它項目。

當您選擇“使用者”項目時，將接收調整好的設定。

調整“音效模式”下的“調整”項目

1 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“平衡”），然後按壓 ⊕ 鍵。





2 按照下表調整項目值，然後按壓 ⊕ 鍵。

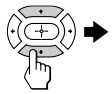
項目	按壓
“低音”	↓/← 鍵以減弱低音，↑/→ 鍵以增強低音。
“高音”	↓/← 鍵以減弱高音，↑/→ 鍵以增強高音。
“平衡”	↓/← 鍵以提高左揚聲器的音量，↑/→ 鍵以提高右揚聲器的音量。
“BBE”	↑/↓ 鍵以： 選擇“強”以強調較高的聲音清純度； 選擇“弱”以強調較低的聲音清純度； 選擇“關”以取消 BBE 功能。

3 重復上述步驟操作以調整其它項目。

當您選擇“使用者”項目時，將接收調整好的設定。

設定“數位音訊輸入”項目

1 當您進入“數位音訊輸入”選單時，按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（請參閱下表）。



選擇	以
“開”	通過 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口接收數位聲音信號。
“關”	通過 COMPONENT VIDEO（DVD）IN 的 L（左）和 R（右）插口接收模擬聲音信號。

2 按壓 ⊕ 鍵以確認所選的項目。

注

- 您的電視機通過 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口只能夠接收到杜比數位或線性 PCM 格式數位的信號（請參閱第 7 頁）。接收其它格式的數位信號將可能造成揚聲器發出噪音或沒有聲音。

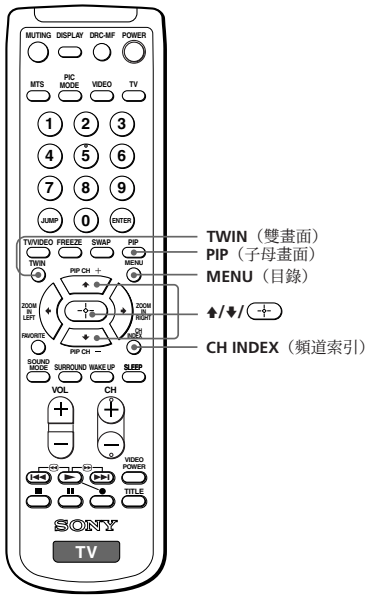
提示

- 有關選單系統和如何使用選單的詳細情況，請參閱第 26 頁的介紹選單系統。

KV-ES38N90
RM-958

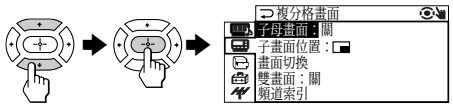
改變“ 複分格畫面 ”設定

“ 複分格畫面 ”選單可使您使用子母畫面，雙畫面或頻道索引功能。

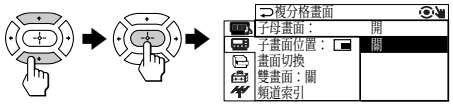


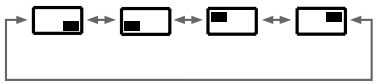
1 按壓 MENU（目錄）鍵。

2 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 複分格畫面 ”符號（▭），然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如“ 子母畫面 ”），然後按壓 ⊕ 鍵。



選擇	以
“ 子母畫面 ”	顯示主螢幕中的子畫面螢幕。 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 開 ”，然後按壓 ⊕ 鍵。 要取消時，按壓 PIP（子母畫面）鍵或選擇“ 關 ”，然後按壓 ⊕ 鍵。
“ 子畫面位置 ”	改變子畫面螢幕的位置。 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的位置，然後按壓 ⊕ 鍵。 
“ 畫面切換 ”	切換主螢幕和子畫面螢幕或雙畫面的右螢幕和左螢幕。
“ 雙畫面 ”	顯示主螢幕旁邊的不同頻道號碼或影音輸入。 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 開 ”，然後按壓 ⊕ 鍵。 要取消時，按壓 TWIN（雙畫面）鍵或選擇“ 關 ”，然後按壓 ⊕ 鍵。
“ 頻道索引 ”	收看小螢幕上的多個頻道號碼。 要取消時，按壓 CH INDEX（頻道索引）鍵。

要回到普通螢幕顯示時

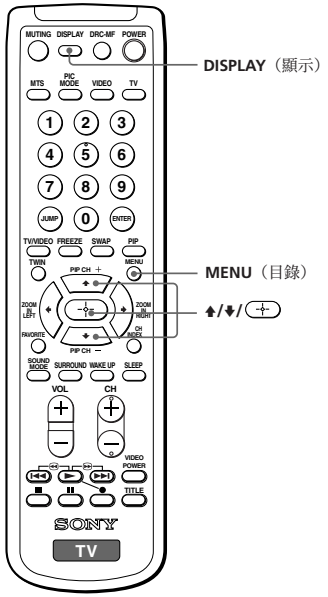
按壓 MENU（目錄）鍵。

提示

- 有關選單系統和如何使用選單的詳細情況，請參閱第 26 頁的介紹選單系統。

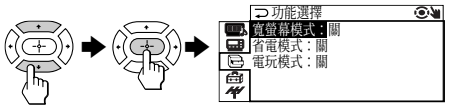
改變“ 功能選擇 ”設定

當接收到 16：9 寬螢幕模式的圖像信號時，“ 功能選擇 ” 選單可讓您改變螢幕圖像的尺寸。此外，這項功能也可讓您調整圖像設定以適於觀看電視遊戲節目和節省電能。

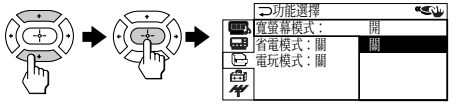


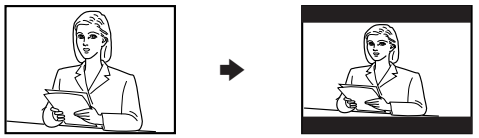
1 按壓 MENU（目錄）鍵。

2 按壓 ↑ 鍵或 ↓ 鍵以選擇 “ 功能選擇 ” 符號（⊃），然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“ 寬螢幕模式 ”），然後按壓 ⊕ 鍵。



選擇	以
“ 寬螢幕模式 ”	改變 16：9 寬螢幕模式信號的圖像尺寸。 按壓 ↑ 鍵或 ↓ 鍵以選擇 “ 開 ”，然後按壓 ⊕ 鍵。  要回到普通圖像尺寸時，請選擇 “ 關 ”，然後按壓 ⊕ 鍵。
“ 省電模式 ”	節省電能。 按壓 ↑ 鍵或 ↓ 鍵以選擇 “ 開 ”，然後按壓 ⊕ 鍵。 要取消時，請選擇 “ 關 ”，然後按壓 ⊕ 鍵。
“ 電玩模式 ”	調整圖像設定以適於觀看電視游戲節目。 按壓 ↑ 鍵或 ↓ 鍵以選擇 “ 開 ”，然後按壓 ⊕ 鍵。 要取消時，請選擇 “ 關 ”，然後按壓 ⊕ 鍵。

注

- 當您打開 “ 省電模式 ” 時，圖像可能變得稍為暗淡。
- 您只可通過電視機側面或背后的 VIDEO IN 1， 2 或 3，VIDEO 4 INPUT，S VIDEO 或 COMPONENT VIDEO（DVD）IN 插口所接收的信號使用 “ 寬螢幕模式 ” 和 “ 電玩模式 ”。
- 當您打開電視機或按壓遙控器上的 DISPLAY（顯示）鍵時，若 “ 省電模式 ” 被打開，省電模式符號（ECO）將被顯示在螢幕上的右下角（請參閱第 10 和 11頁）。

要回到普通螢幕顯示時

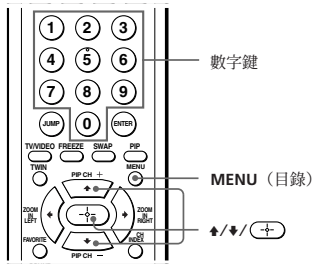
按壓 MENU（目錄）鍵。

提示

- 有關選單系統和如何使用選單的詳細情況，請參閱第 26 頁的介紹選單系統。

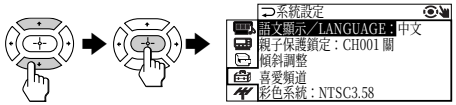
改變“系統設定”內容

“系統設定”選單可使您：
自動改變選單語言，鎖定頻道號碼，調整螢幕位置，輸入喜愛頻道，以及更換彩色系統。

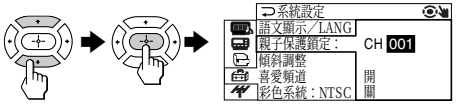


1 按壓 MENU（目錄）鍵。

2 按壓 ↑ 鍵或 ↓ 鍵以選擇“系統設定”符號（🖃），然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“親子保護鎖定”），然後按壓 ⊕ 鍵。



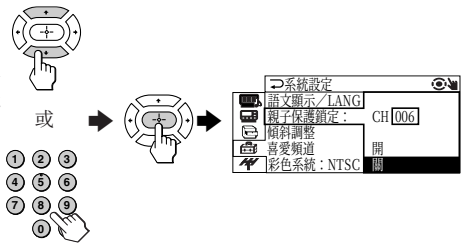
選擇	以
“語文顯示/LANGUAGE”	更換選單語言（請參閱第 12 頁）。
“親子保護鎖定”	鎖定頻道號碼（請參閱第 37 頁）。
“傾斜調整”	調整電視螢幕上傾斜的圖像。 按壓 ↑ 鍵或 → 鍵順時針方向調整螢幕位置，然後按壓 ⊕ 鍵。 按壓 ↓ 鍵或 ← 鍵逆時針方向調整螢幕位置，然後按壓 ⊕ 鍵。
“喜愛頻道”	選擇您的喜愛頻道（請參閱第 16 和 38 頁）。
“彩色系統”	更換彩色系統（僅於影音模式）。 按壓 ↑ 鍵或 ↓ 鍵以選擇適當的彩色系統，然後按壓 ⊕ 鍵。 通常將此設定為“自動切換”。

要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

鎖定頻道號碼（“親子保護鎖定”）

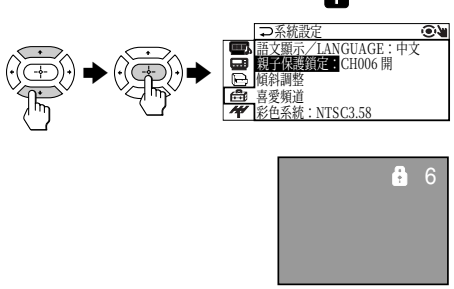
1 選擇“親子保護鎖定”之後，按壓 ↑ 鍵或 ↓ 鍵或按壓數字鍵，【或 CH +/–（頻道）鍵】以選擇所要的頻道號碼（例如，頻道號碼 006），然後按壓 ⊕ 鍵。



2 按壓 ↑ 鍵或 ↓ 鍵以選擇“開”，然後按壓 ⊕ 鍵。要取消時，選擇“關”。

當選擇“開”時，親子保護鎖定符號（🔒）即顯示在螢幕上。

若選擇了一個鎖定的頻道號碼，則親子保護鎖定符號即顯示在螢幕上。



3 重復第 1 和第 2 步驟以鎖定其它頻道號碼。

要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

注

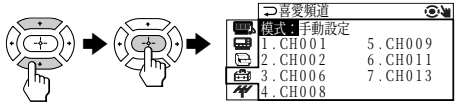
- 若您自動預設鎖定的頻道號碼，則此頻道號碼將自動解鎖（請參閱第 39 頁）。

續

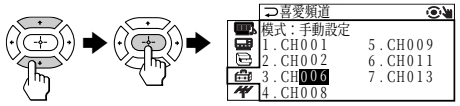
輸入喜愛頻道

1 選擇“ 喜愛頻道 ”之後，確認“ 模式 ”已被選定，然後按壓 ⊕ 鍵。

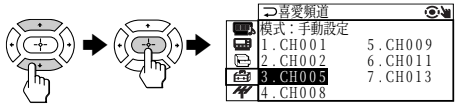
2 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 手動設定 ”，然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇您要輸入的喜愛頻道，然後按壓 ⊕ 鍵。



4 按壓 ↑ 鍵或 ↓ 鍵以改變頻道號碼，然後按壓 ⊕ 鍵。



5 重復第 3 和第 4 步驟以設定其它喜愛頻道。

要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

注

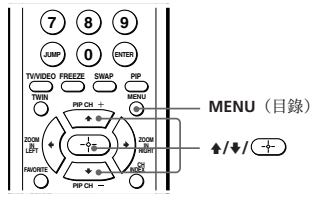
- 若您在上述步驟 4 中按壓 CH +/–（頻道）鍵或數字鍵，則電視將即刻顯示此頻道號碼。

提示

- 若要觀看所輸入的喜愛頻道，請參閱第 16 頁的收看您的喜愛頻道。

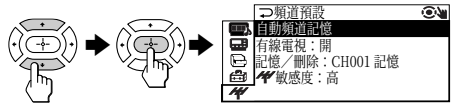
改變“ 頻道預設 ”設定

“ 頻道預設 ”選單可讓您調整電視機的設定，以接收有線電視、VHF 及 UHF 廣播。另外，您也可手動預設頻道來接收自動預設所不能接收到的信號微弱的頻道。

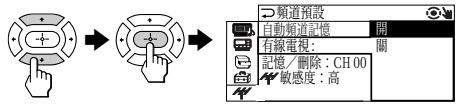


1 按壓 MENU（目錄）鍵。

2 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 頻道預設 ”符號（📡），然後按壓 ⊕ 鍵。



3 按壓 ↑ 鍵或 ↓ 鍵以選擇所要的項目（例如，“ 有線電視 ”），然後按壓 ⊕ 鍵。



選擇	以
“ 自動頻道記憶 ”	自動預設頻道。 若您自動預設任何一個鎖定頻道號碼，此頻道號碼將自動解鎖（請參閱第 37 頁）。
“ 有線電視 ”	接收有線電視節目。 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 開 ”，然後按壓 ⊕ 鍵。 若沒有有線電視，您將接收 VHF/UHF 廣播頻道。 若只想接收 VHF/UHF 廣播頻道，選擇“ 關 ”，然後按壓 ⊕ 鍵。
“ 記憶／刪除 ”	手動預設頻道（參閱第 40 頁）。
“ 📡 敏感度 ”	調整電視接收敏感度。

要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

提示

- 有關選單系統和如何使用選單的詳細情況，請參閱第 26 頁的介紹選單系統。

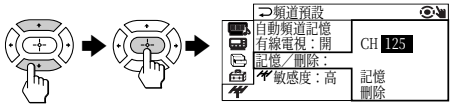
續

改變“ 頻道預設 ”設定（續）

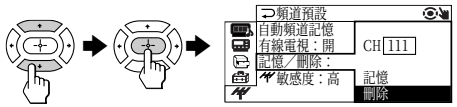
手動預設頻道

1 要記憶或刪除某一個頻道號碼時，您可手動預設頻道。

(1) 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 記憶／刪除 ”，然後按壓 ⊕ 鍵。



(2) 按壓 ↑ 鍵或 ↓ 鍵直到您要記憶或刪除的頻道號碼（例如，頻道號碼 111）出現在選單上，然後按壓 ⊕ 鍵。

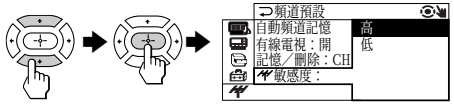


(3) 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 記憶 ”或“ 刪除 ”，然後按壓 ⊕ 鍵。

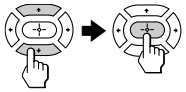
提示
- 您也可用 CH +/–（頻道）鍵或數字鍵選擇頻道號碼。

2 若電視信號太強而且圖像失真，則您可調整電視接收敏感度。

(1) 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 敏感度 ”，然後按壓 ⊕ 鍵。



(2) 按壓 ↑ 鍵或 ↓ 鍵以選擇“ 低 ”，然後按壓 ⊕ 鍵。



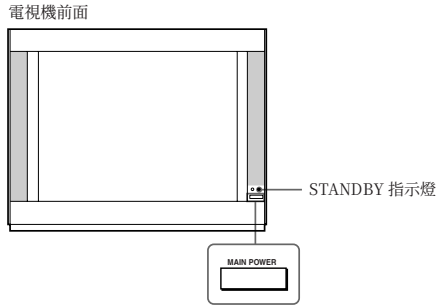
要回到普通螢幕顯示時

按壓 MENU（目錄）鍵。

注
- 每個頻道號碼都記憶入電視接收敏感度（“ 敏感度 ”）設定。
- 若您自動預設鎖定的頻道號碼，則該頻道號碼將自動解鎖（請參閱第 37 頁）。

自動檢測判斷功能

您的電視機設有自動檢測判斷功能。若您的電視機發生故障，STANDBY 指示燈會發出紅色亮光。STANDBY 指示燈所發出的亮光次數將表明可能存在的原因。



1 檢查 STANDBY 指示燈所發出的紅色亮光是否相隔三秒。

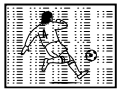
2 計算 STANDBY 指示燈的亮光次數。

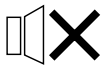
3 按壓 MAIN POWER 鍵以關閉您的電視機。

4 通知您鄰近的 Sony 經銷商有關於 ⏻ 指示燈所發出的亮光次數。
確定您將電視機背後所注明的機型和機身號記錄下來。

故障檢修

若您觀看電視時遇見任何問題，您可參考下列故障檢修指南。若問題仍然存在，請聯絡 Sony 經銷商。

癥狀	可能因素	解決方法	頁面
圖像有雪花狀斑點  有噪聲 或 “無信號”顯示於螢幕上，而畫面轉為暗淡。	• 連接已鬆脫或電纜已損壞。	• 檢查天線電纜以及電視機、錄影機和牆上的天線連接是否正確。	4
	• 頻道預設不適當或不完整。	• 再次預設頻道。	40
	• 天線類型不合適。	• 檢查天線類型（VHF/UHF）。請尋求 Sony 經銷商的協助。	—
	• 天線定位方向不正確。	• 調整天線方向。請尋求 Sony 經銷商的協助。	—
	• 傳送信號微弱。	• 嘗試使用信號增強器。	—
圖像失真 有噪聲 	• 廣播信號太強。	• 顯示“頻道預設”選單，然後選擇“ 敏感度：低”。 • 切斷信號增強器的電源或拔掉插頭以終止其操作。	40 —
圖像良好 有噪聲 	• 數位聲音信號不正確。	• 將“影音選擇”選單中的“數位音訊輸入”設定為“關”。同時也連接電視機上的 COMPONENT VIDEO（DVD）IN 的 L（左）和 R（右）插口以接收模擬聲音信號。	7, 31
沒有圖像 沒有聲音 	• 電源線、天線或錄影機沒有被連接。	• 檢查電源線、天線以及與錄影機的連接是否正確。	4
	• 電視機電源沒有被接通。	• 按壓 POWER（電源）鍵。 • 按壓電視機上的 MAIN POWER 鍵以切斷電視機電源，五秒左右後再次接通電源。	10 11

癥狀	可能因素	解決方法	頁面
圖像良好 沒有聲音 	• 音量水平過低。	• 按壓 VOL +（音量）鍵或 VOLUME + 鍵以提高音量水平。	11
	• 聲音被消除。	• 按壓 MUTING（靜音）鍵取消消音。	11
	• 數位聲音信號不正確。	• 將“影音選擇”選單中的“數位音訊輸入”設定為“關”。同時也連接電視機上的 COMPONENT VIDEO（DVD）IN 的 L（左）和 R（右）插口以接收模擬聲音信號。	7, 31
	• “影音選擇”選單中的“數位音訊輸入”設定不正確。	• 當連接電視機上的 COMPONENT VIDEO（DVD）IN 插口時，若要通過 COMPONENT VIDEO（DVD）IN 的 DIGITAL IN 插口接收數位聲音信號，請將“數位音訊輸入”設定為“開”。相反的，若通過 COMPONENT VIDEO（DVD）IN 的 L（左）和 R（右）插口接收模擬聲音信號，請將“數位音訊輸入”設定為“關”。	31
圖像有點線或條紋 	• 受周圍環境（如汽車、霓虹燈、吹風機、發電機等）影響。	• 不要在電視機旁使用吹風機或其它電器。 • 調整天線方向以減低干擾。請尋求 Sony 經銷商的協助。	— —
圖像出現雙重影像或疊像 	• 廣播信號受周圍高山或大廈干擾。	• 使用高定向天線。	—
	• 天線定位方向不正確。	• 調整天線方向。請尋求 Sony 經銷商的協助。	—
	• 信號增強器的使用不適當。	• 切斷信號增強器的電源或拔掉插頭以終止其操作。	—
圖像無彩色 	• 彩色水平設定過低。	• 顯示“影音選擇”選單，並選擇“畫質模式”中的“調整”，然後調整“彩色”濃度。	30
	• 彩色系統設定不正確。	• 顯示“系統設定”選單，並檢查“彩色系統”設定（通常將此設定為“自動切換”）（僅於影音模式）。	36
	• 天線定位方向不正確。	• 調整天線方向。請尋求 Sony 經銷商的協助。	—
圖像有不正常的彩色斑點 	• 受外部揚聲器或其它電器電磁性的影響，或受地球磁場方向的影響。	• 將電視機放置在遠離外部揚聲器或其它電器的地方。請別移動已被接通電源的電視機。按壓電視機上的 MAIN POWER 鍵以切斷電視機電源。 約 15 分鐘後再接通電視機電源。	—

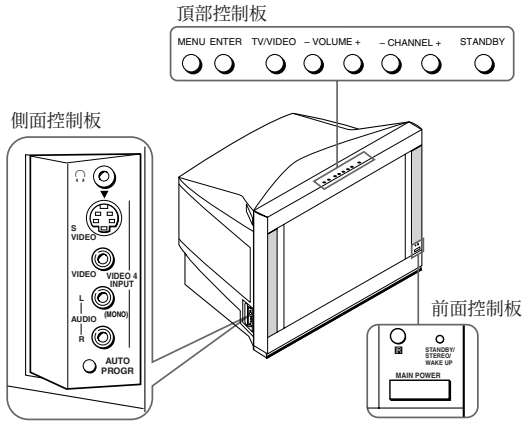
續

故障檢修（續）

癥狀	可能因素	解決方法	頁面
電視機無法接收立體聲廣播信號。	• 立體聲接收設定不適當。	• 按壓 MTS（音聲多重）鍵直到 " 立體聲 " 顯示在螢幕上。	23
立體聲廣播聲音開關失常或聲音失真。	• 連接已鬆動或電纜已損壞。	• 檢查天線電纜以及電視機，錄影機和牆上的天線連接是否正確。	4
或	• 天線定位方向不正確。	• 調整天線方向。請尋求 Sony 經銷商的協助。	—
聲音頻繁地轉換於單聲道和立體聲之間。	• 廣播信號有傳送故障。	• 按壓 MTS（音聲多重）鍵直到聲音正常為止。	23
圖像傾斜	• 受外部揚聲器或其它電器電磁性的影響，或受地球磁場方向的影響。	• 將電視機放置在遠離外部揚聲器或其它電器的地方。 • 顯示 " 系統設定 " 選單並調整 " 傾斜調整 "，以使圖像位置調至最佳。	— 36
電視機上的 STANDBY 指示燈每隔三秒閃爍至少一次的紅色亮光。	• 您的電視機可能需要修理。	• 請尋求 Sony 經銷商的協助。	41
不能操作電視游戲。	• 本電視機不能用於那些電子鎗或萊福鎗操縱的電視射擊游戲的操作。詳細內容請參閱電視游戲機軟件所附的說明書。	—	—
電視機外殼發出吱嘎聲。	• 隨室內溫度的變化，電視機的外殼會膨脹或縮小而有時產生噪聲。這並不表示發生故障。	—	—
當您接通電視機電源時，聽到 " 嘣 " 的聲音。	• 電視機自動消磁。這並不表示發生故障。	—	—
當您觸摸電視機外殼時，您將會感覺到靜電。	• 這種情況與您觸摸到金屬門柄或汽車門的靜電情況相似。這通常在空氣乾燥的時後發生，例如冬天。這並不表示發生故障。	—	—

控制鍵總概況

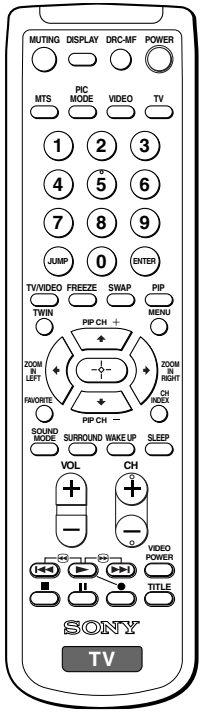
前面，頂部和側面控制板



按鍵	功能	頁面
側面控制板		
∩	耳機插孔。	—
AUTO PROGR	自動預設頻道。	5
前面控制板		
MAIN POWER	接通或完全切斷電視機電源。	10
STANDBY	待機指示燈。	10
WAKE UP	開機定時指示燈。	13
STEREO	立體聲指示燈。	23
頂部控制板		
STANDBY	接通或暫時切斷電視機電源。	10
CHANNEL +/–	選擇頻道號碼。	10
VOLUME +/–	調整音量。	11
TV/VIDEO	選擇電視或影音輸入。	11
ENTER	確認被選項目。	28
MENU	顯示選單。	28

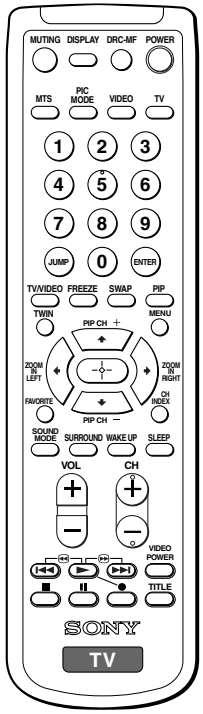
續

遙控器



按鍵	功能	頁面
POWER（電源）	接通或暫時切斷電視機電源。	10
CH +/–（頻道）	選擇頻道號碼。	10
0 - 9	輸入號碼。	10
ENTER	確認所輸入的號碼。	10
DISPLAY（顯示）	顯示螢幕上的信息。	11
MUTING（靜音）	消除聲音。	11
TV（電視）	顯示電視節目。	11
VIDEO（影音）	選擇電視或影音輸入。	11
VOL +/–（音量）	調整音量。	11
JUMP	跳回到之前收看的頻道號碼。	11
定時器操作		
WAKE UP（開機定時）	設定電視自動打開。	13
SLEEP（睡眠定時）	設定電視自動關閉。	13
SOUND MODE（音效模式）	選擇音效模式。	14
PIC MODE（畫質模式）	選擇畫質模式。	14
DRC-MF	選擇 " DRC-MF " 模式。	15
喜愛頻道操作		
FAVORITE（喜愛頻道）	顯示喜愛頻道。	16
↑, ↓, ←, →, ⊕	選擇所要的喜愛頻道。	16
子母畫面和雙畫面操作		
PIP（子母畫面）	顯示子畫面的螢幕。	17
TWIN（雙畫面）	顯示雙畫面。	17
→（**ZOOM IN RIGHT**）（右螢幕放大），←（**ZOOM IN LEFT**）（左螢幕放大）	調整雙畫面圖像的尺寸。	18
↑（**PIP CH +**）（子畫面頻道 +），↓（**PIP CH –**）（子畫面頻道 –）	改變子畫面或雙畫面中的節目。	18
TV/VIDEO（電視／影音）	選擇子畫面或雙畫面中的影音輸入。	18
SWAP（畫面切換）	對換子畫面或雙畫面中的圖像。	18
FREEZE（畫面靜止）	靜止子畫面的圖像。	18

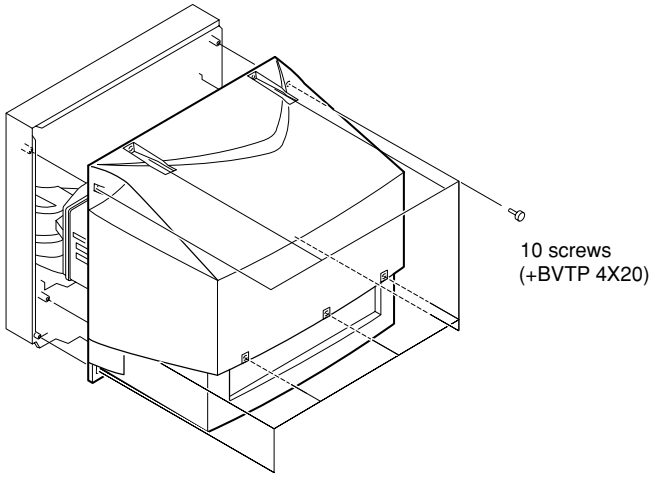
遙控器



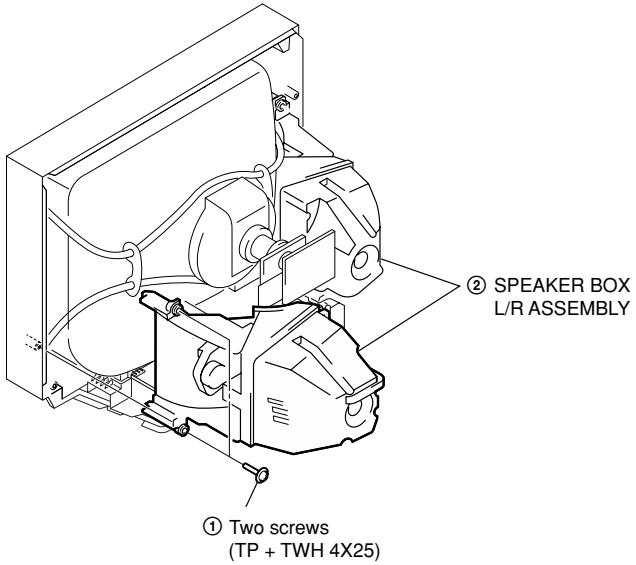
按鍵	功能	頁面
頻道搜索操作		
CH INDEX（頻道索引）	顯示全部預設的頻道號碼。	19
CH +/–（頻道）	觀看之後或之前的 12 個頻道號碼。	20
↑, ↓, ←, →, ⊕	選擇所要的頻道號碼。	20
SURROUND（環繞音效）	選擇環繞音效模式。	22
欣賞立體聲或雙語言節目		
MTS（音聲多重）	選擇立體聲或雙語言模式。	23
選購裝置操作		
VIDEO POWER（錄影機電源）	電源和設定遙控器。	24
0 – 9	設定遙控器。	24
TITLE（標題）	顯示標題選單。	25
►	播放。	25
►►|	快進、向前選擇。	25
|◄◄	倒帶、向後選擇。	25
●	錄影。	25
■	停止。	25
❚❚	暫停。	25
選單操作		
MENU（目錄）	顯示選單。	28
↑, ↓, ←, →, ⊕	選擇、調整和確認被選項目。	28

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

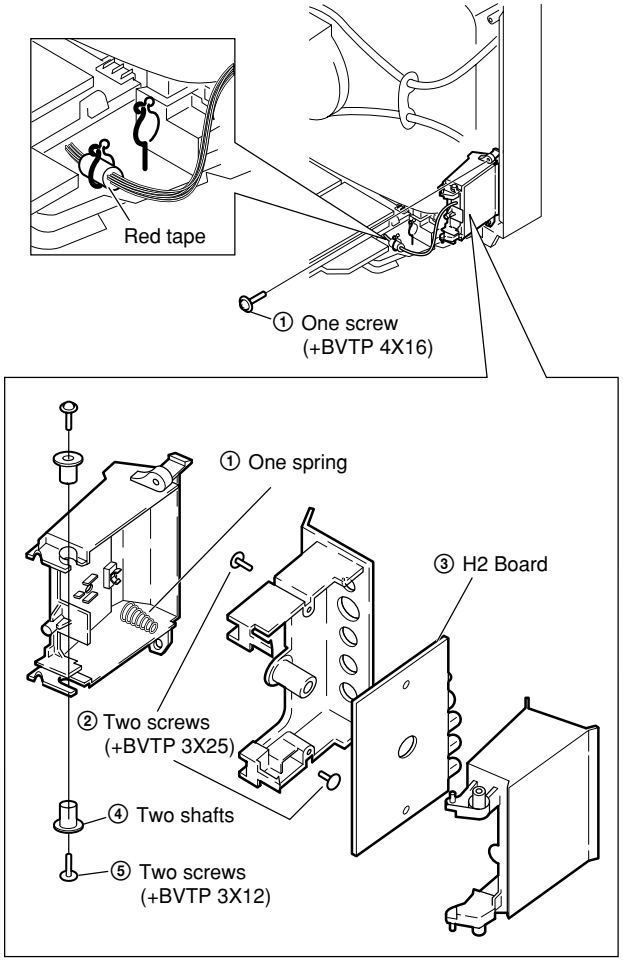


2-2. SPEAKER BOX REMOVAL

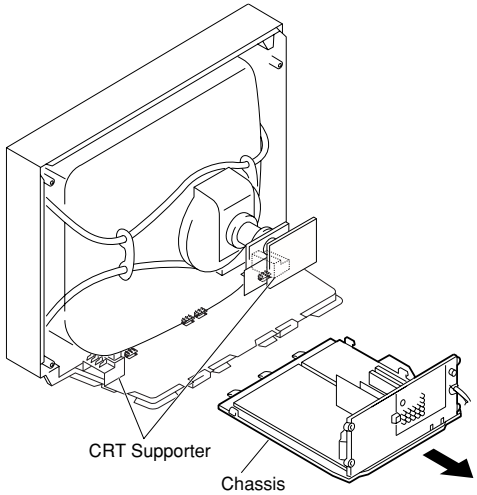


2-3. H2 BOARD REMOVAL

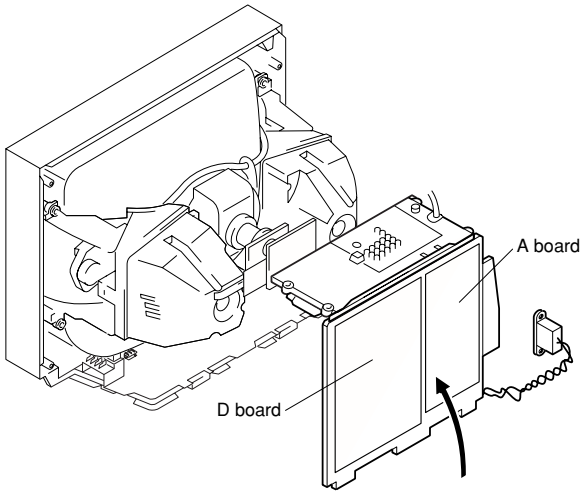
Caution: Please make sure that the red colour taped point is just placed with the purse lock when treating the leads to H2 board. If lead treatment is wrongly arranged, it will affect the door opening and closing malfunction.



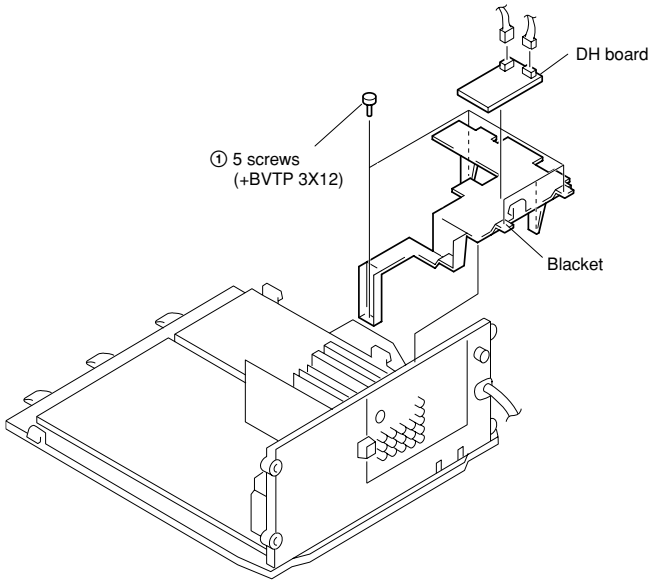
2-4. CHASSIS ASSY REMOVAL



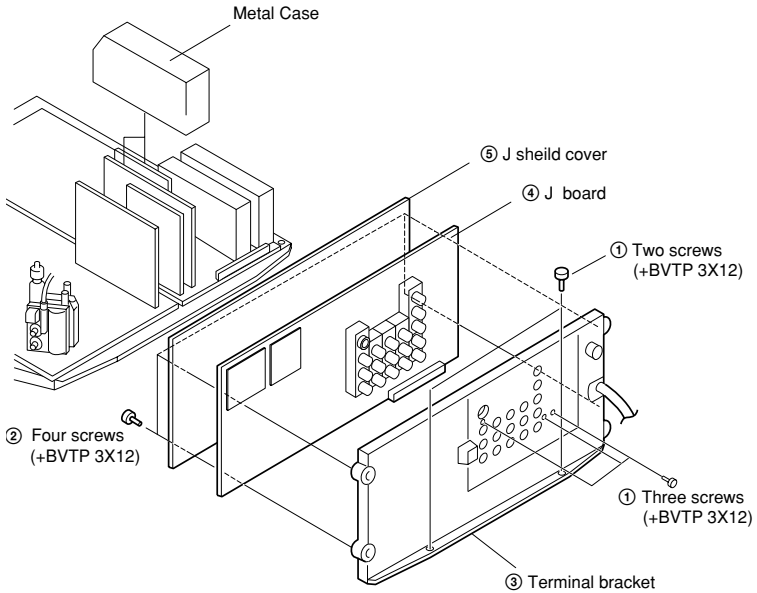
2-5. SERVICE POSITION



2-6. DH BOARD REMOVAL

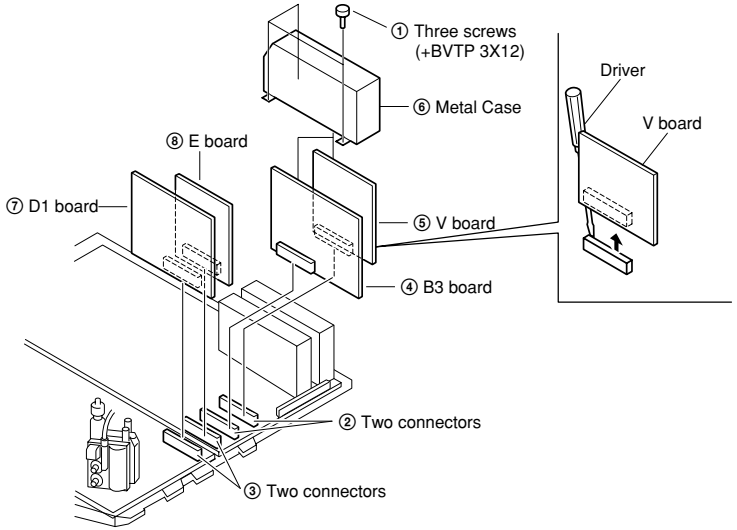


2-7. J BOARD REMOVAL

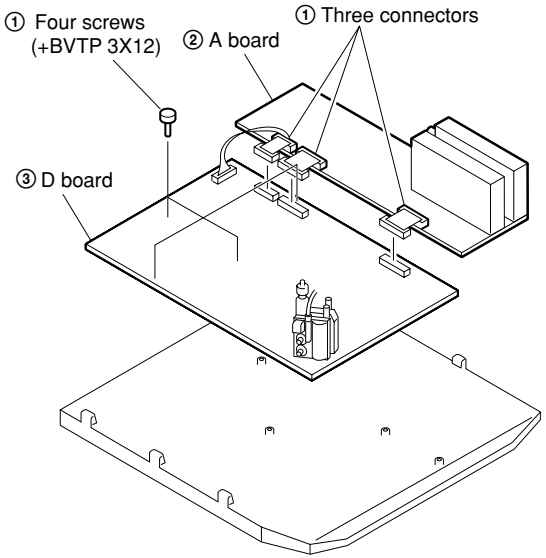


2-8. B3, D1 AND E BOARDS REMOVAL

NOTE : V Board is not used for this model.

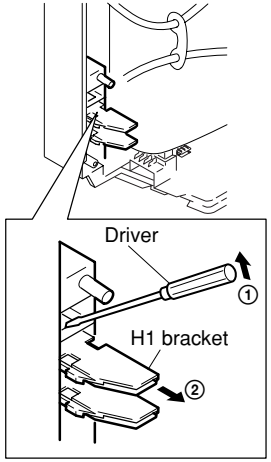


2-9. A AND D BOARDS REMOVAL



2-10. H1 BOARD REMOVAL

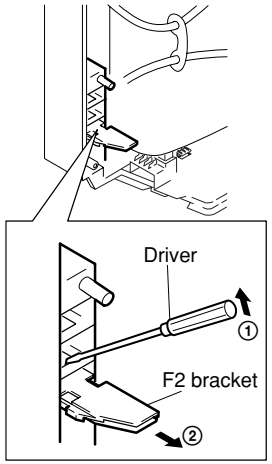
NOTE : Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.



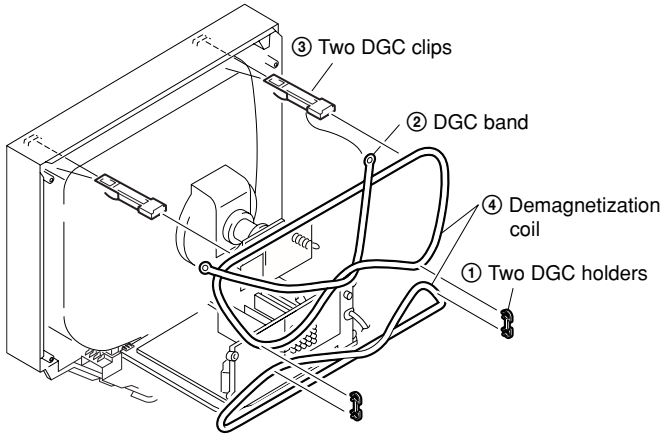
2-11. F2 BOARD REMOVAL

NOTE : To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip of a screwdriver and at the same time pull the F2 bracket.

Caution : When removing the F2 board, please turn off the main AC supply and disconnect the AC plug.

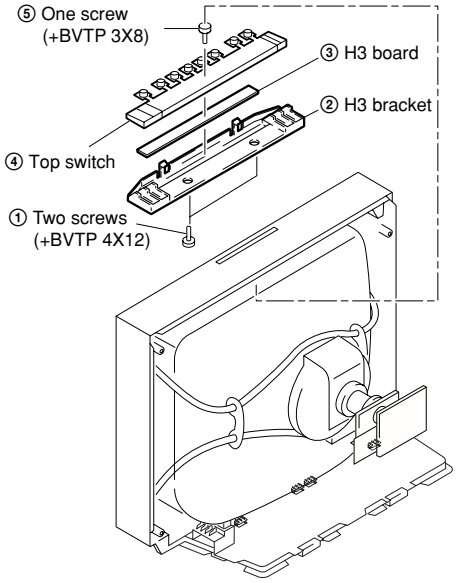


2-12. DEMAGNETIZATION COIL REMOVAL



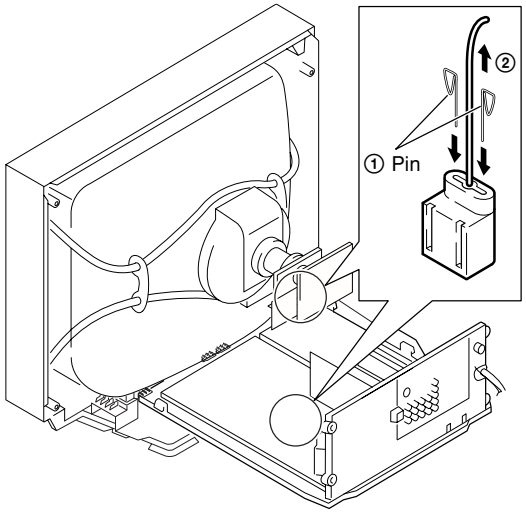
2-13. TOP SWITCH REMOVAL (H3 BOARD REMOVAL)

NOTE : To remove H3 board, the CRT has to be removed first.



2-14. G2 LEAD REMOVAL

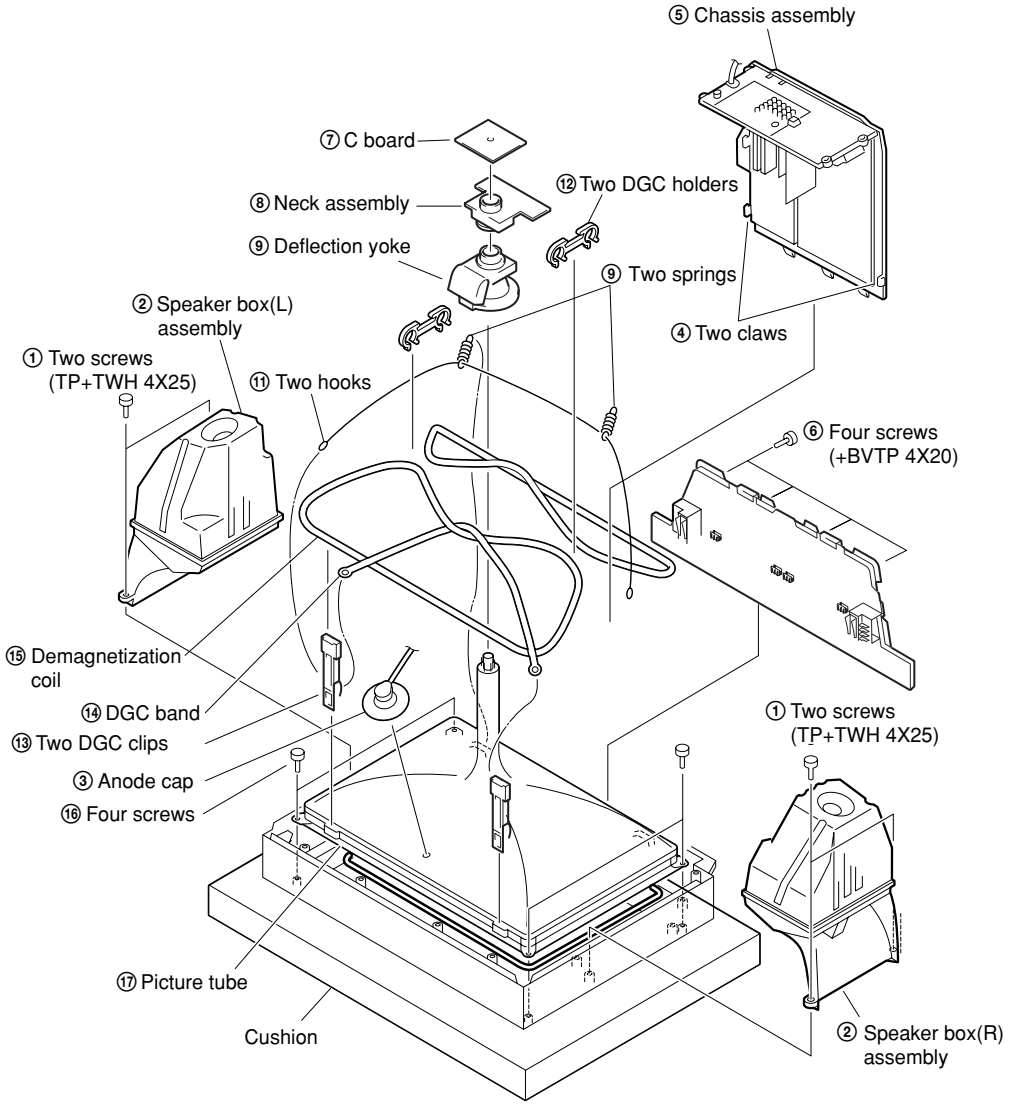
NOTE : Insert pin to both edge holes on socket and release the lock.



2-15. PICTURE TUBE REMOVAL

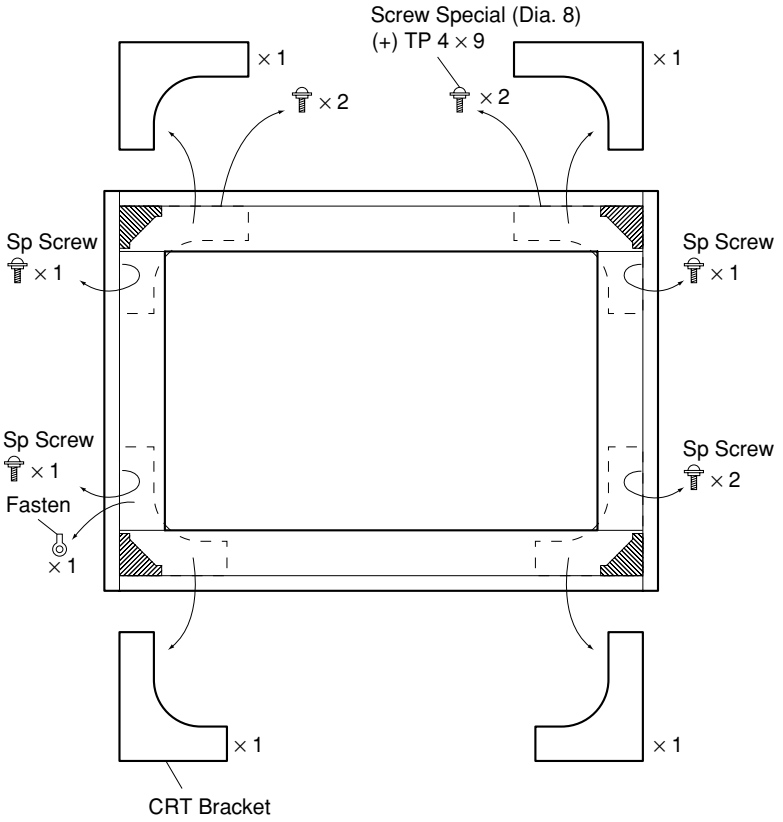
i) Prior to picture tube removal, please remove the front cover first.

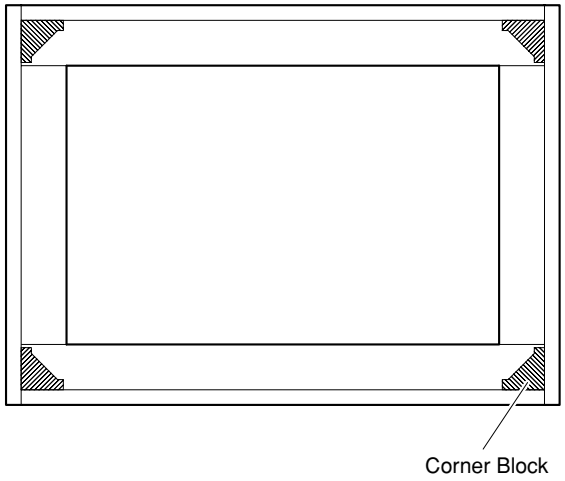
Caution : Aluminium frame is easily scratched if extra caution is not taken when handling it.



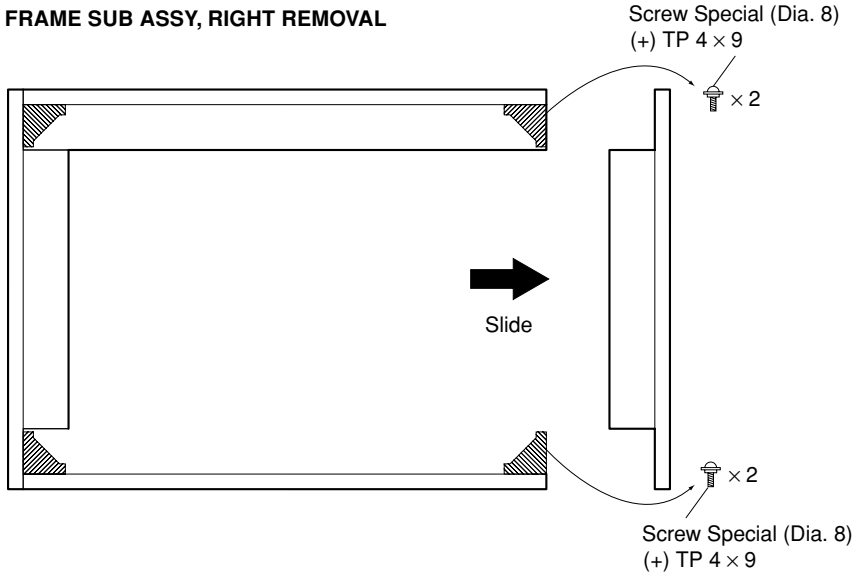
2-16. FRAME SUB-ASSY DISASSEMBLY

①

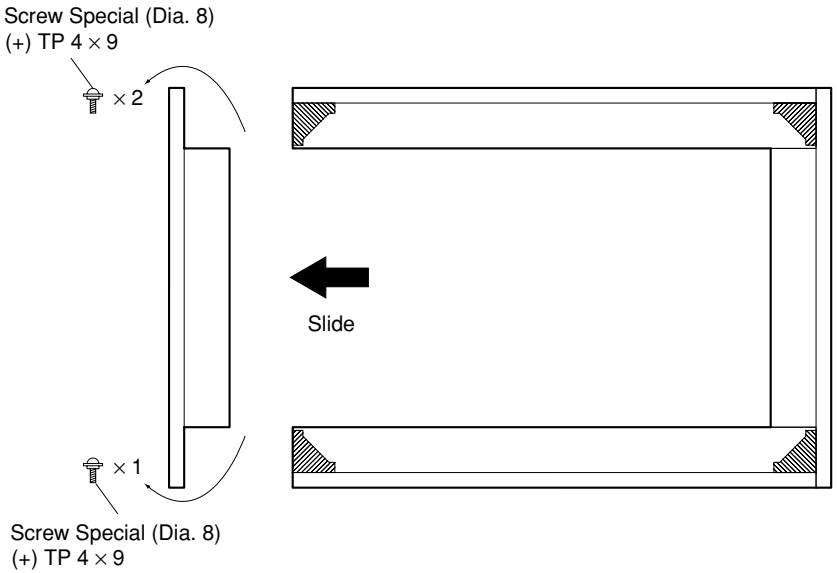




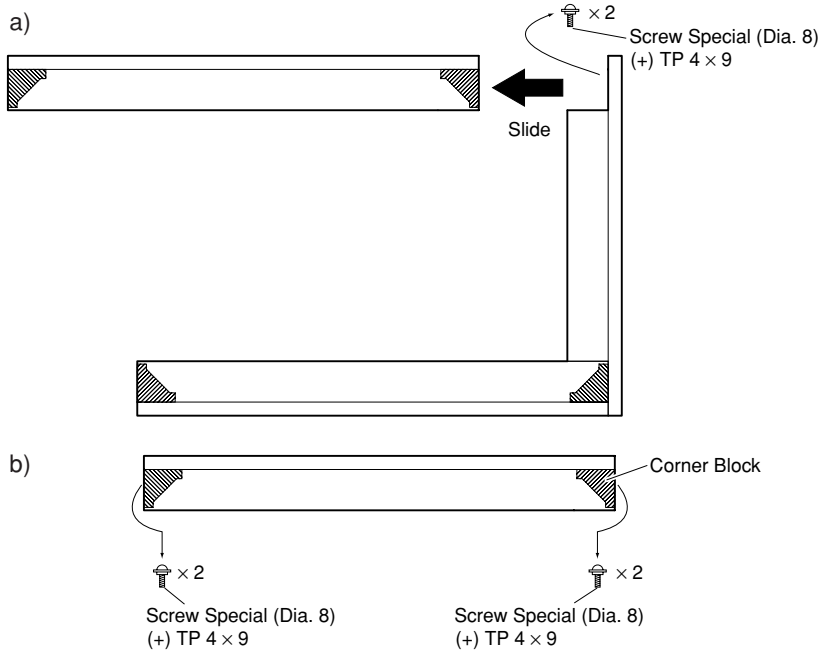
FRAME SUB ASSY, RIGHT REMOVAL



FRAME SUB ASSY, LEFT REMOVAL

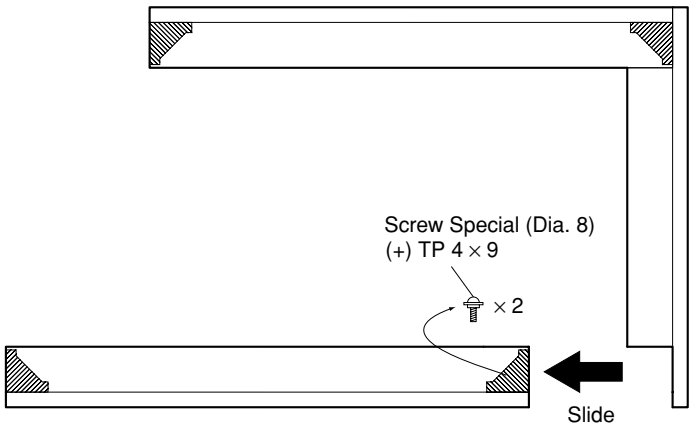


FRAME SUB ASSY, TOP REMOVAL

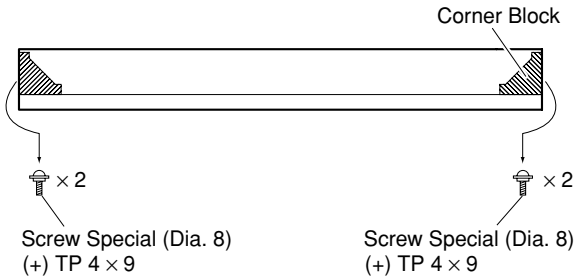


FRAME SUB ASSY, BOTTOM REMOVAL

a)



b)

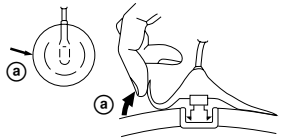


NOTE : When replacing the Frame Sub-Assy Top and Bottom, fix the original corner block to the new part.

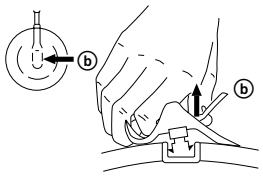
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

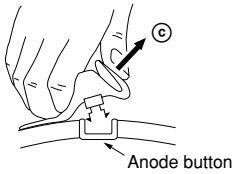
• REMOVING PROCEDURES



① **Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.**



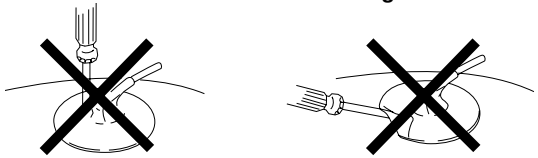
② **Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.**



③ **When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.**

- **HOW TO HANDLE AN ANODE-CAP**

① **Do not damage the surface of anode-caps with sharp shaped objects.**
② **Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.**
③ **Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.**

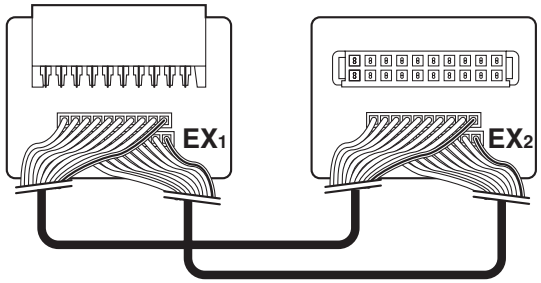


SECTION 3
SERVICE JIG

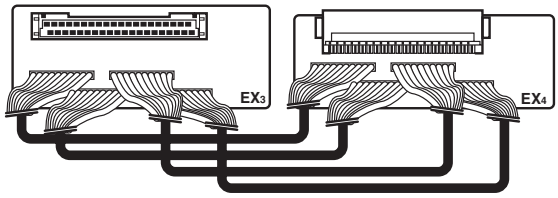
3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	3-702-763-01	For A to V board extension
J-2	TOOL (40P), SERVICE	3-702-764-01	For A to E board extension
J-3	TOOL (50P-A), SERVICE	3-702-765-01	For A to B3 board extension
J-4	TOOL (50P-J), SERVICE	3-702-766-01	For A to J board extension For D to D1 board extension

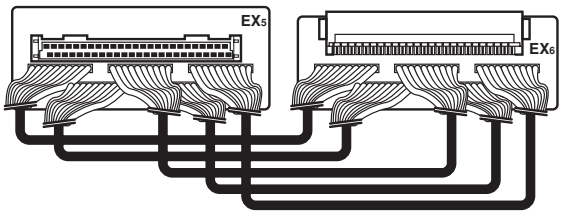
J-1



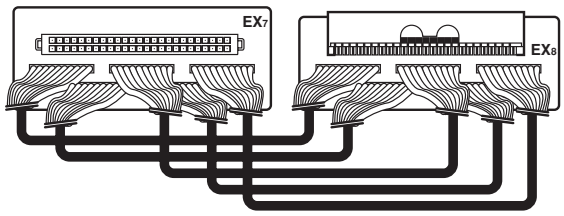
J-2



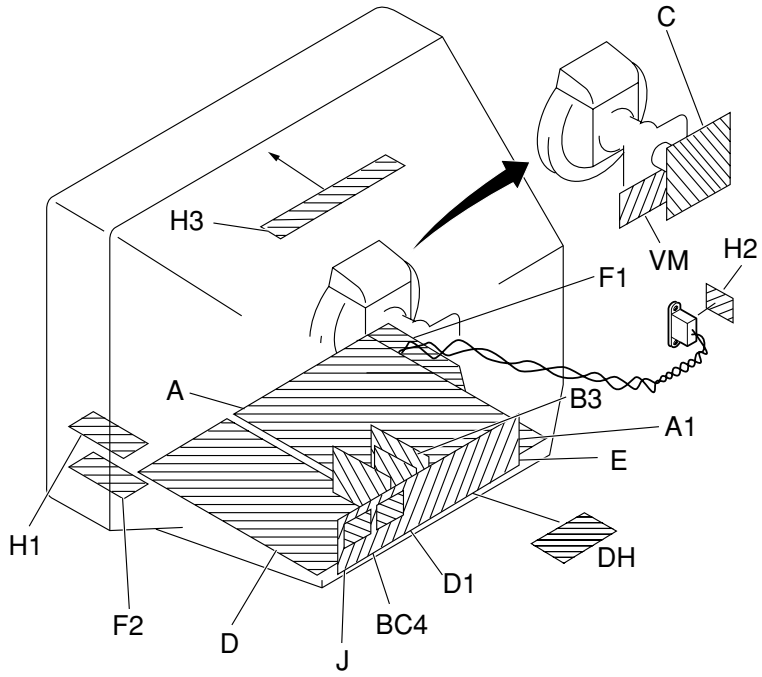
J-3



J-4



SECTION 4
CIRCUIT BOARDS LOCATION



Note: SP Board is located at the Duct, speaker

SECTION 5
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

.....

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

5-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig 5-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side. (See Figures 5-1 through 5-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 5-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 5-4.)

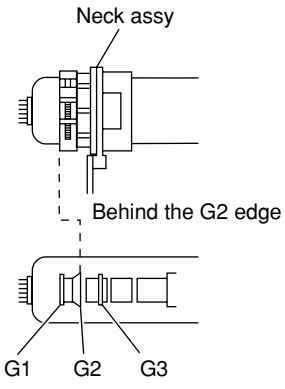


Fig. 5-1

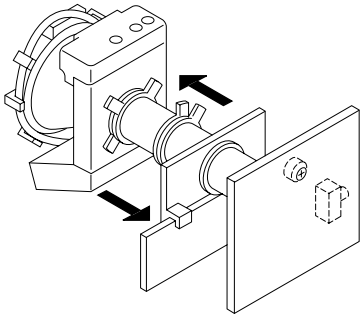


Fig. 5-2

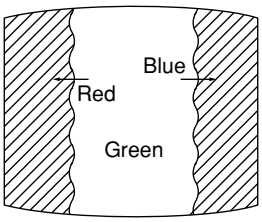


Fig. 5-3

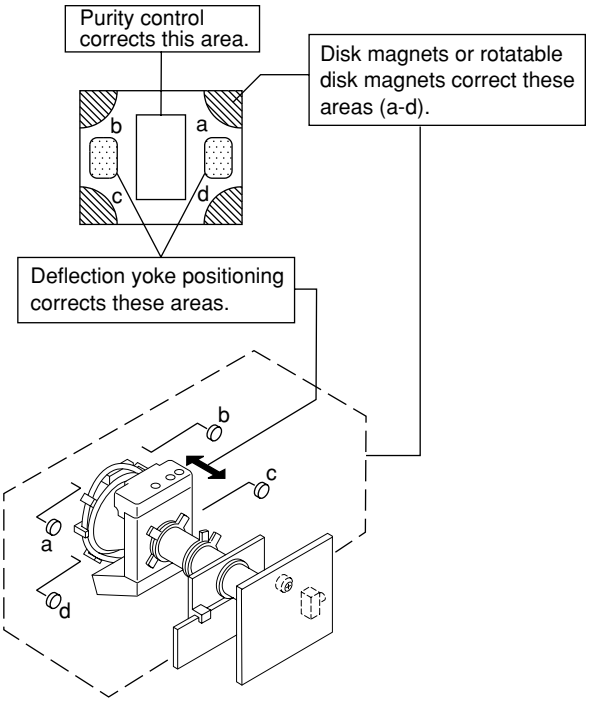


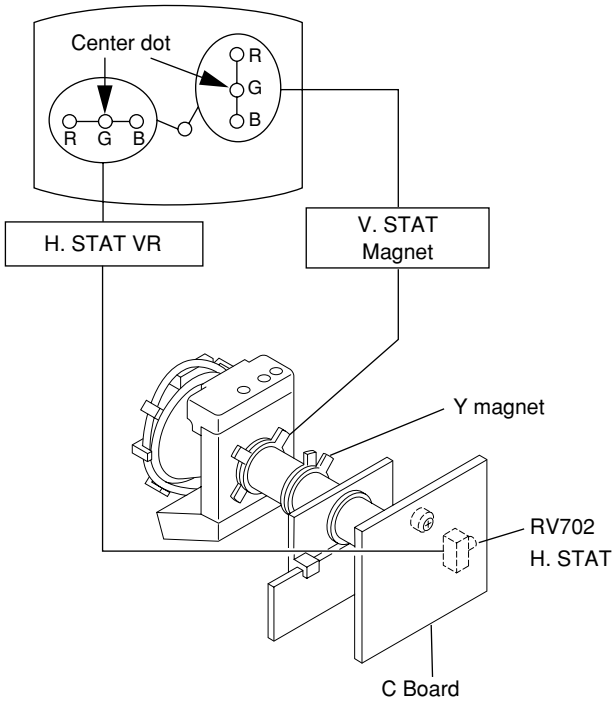
Fig. 5-4

5-2. CONVERGENCE ADJUSTMENT

Preparation :

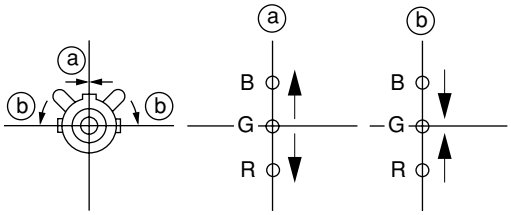
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to "STANDARD".
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

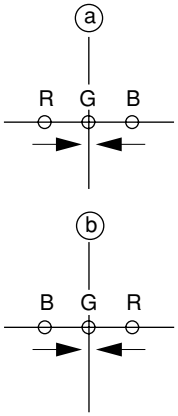


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. Adjust Horizontal Trapezoid with “DAC 04 HTR” in Service Mode to make H-Trapezoid distortion best.
4. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

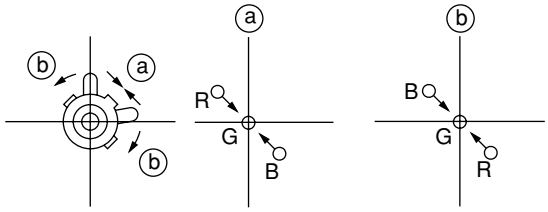
① V. STAT

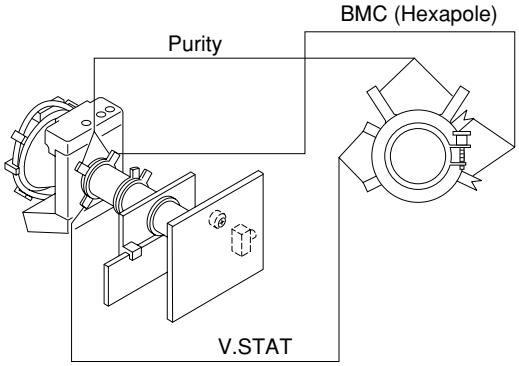


② H. STAT VR



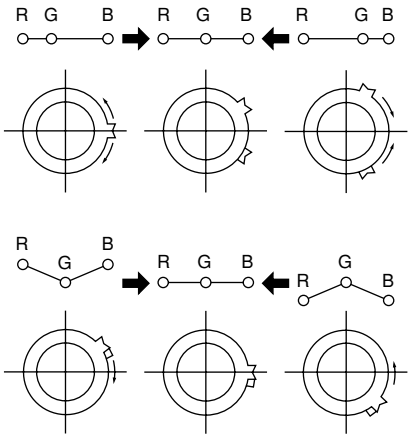
③





④ BMC (Hexapole) Magnet.

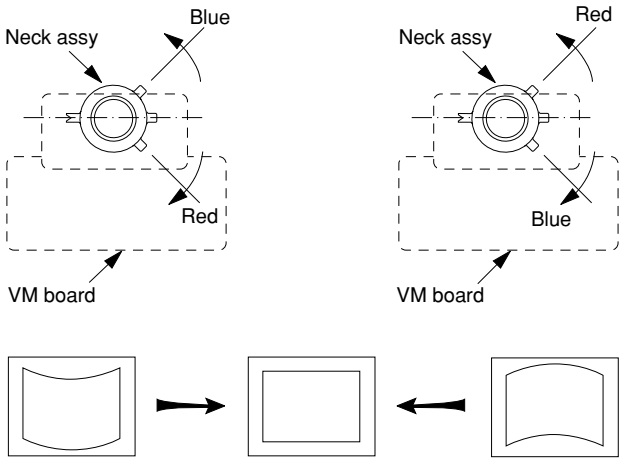
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .

2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

Preparation:

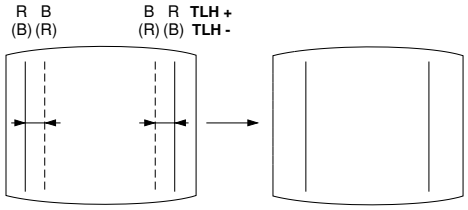
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

① Receive the dot/hatch pattern signal and adjust picture quality by the menu.

② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL–) and take both sides.

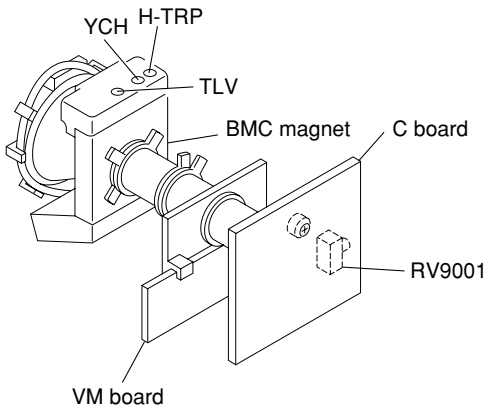


2. Adjust V-TILT-TLV.

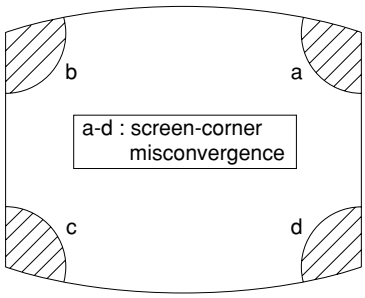
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

3. Adjust YCH.

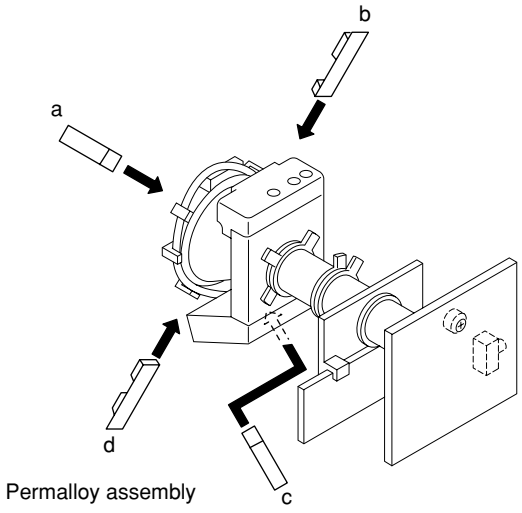
Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



Fix a Permalloy assy corresponding to the misconverged areas.

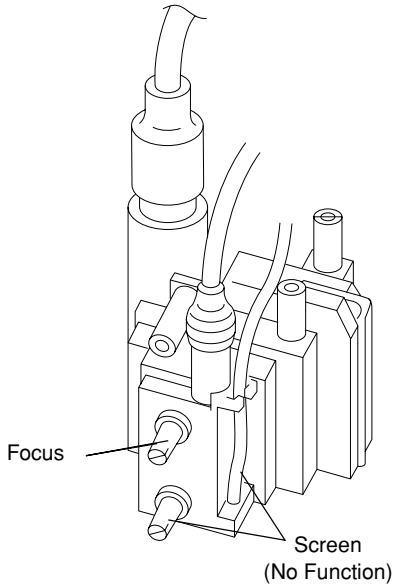


5-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set "A/V CONTROL" to "STANDARD".
(3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
(4) Change the receiving signal to white pattern and blue back.
(5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



FLYBACK TRANSFORMER (T6803)

5-4. NECK ASSY TWIST ADJUSTMENT

(1) Receive dot/hatch pattern.
(2) Turn FOCUS VR fully counter-clockwise.
(3) Confirm the dot shape at the screen center. (Fig. 5-4)
(4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

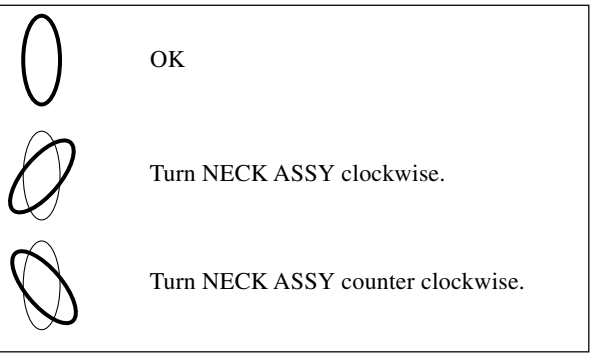
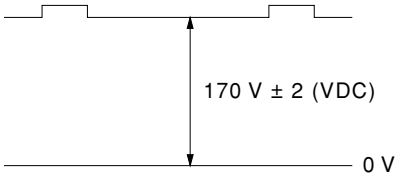


Fig. 5-4

5-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Whilst watching the picture, adjust the screen VR (RV9002) located on the C board to the point just before the flyback return lines disappear (to the point before cut-off)



2. WHITE BALANCE ADJUSTMENT

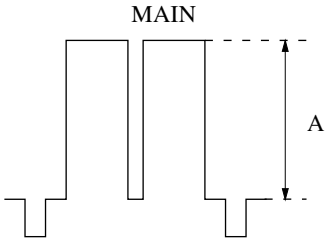
1) Set to Service Mode (Refer Section 6-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the following condition.
   PICTURE minimum, BRIGHTNESS 50%
4) Select GCT (WHB 7) and BCT (WHB 8) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 4) and BDR (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

3. SUB PICTURE BRIGHTNESS ADJUSTMENT

1) Tune RF PAL white signal at program No. 1 and No. 2.
2) Select “TWIN PICTURE” mode.
3) Receive different RF PAL white signals in MAIN and Sub picture.
4) Adjust RV3300 on A PWB, so that the output from the 17 pin and 20 pin of the CN1180 becomes within the spec.

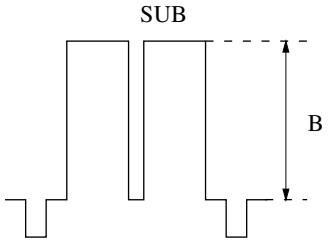
CVBS 1

17 pin



CVBS 2

20 pin



Spec: |A - B| ≤ ± 20mV

SECTION 6
CIRCUIT ADJUSTMENTS

6-1. ADJUSTMENTS WITH COMMANDER

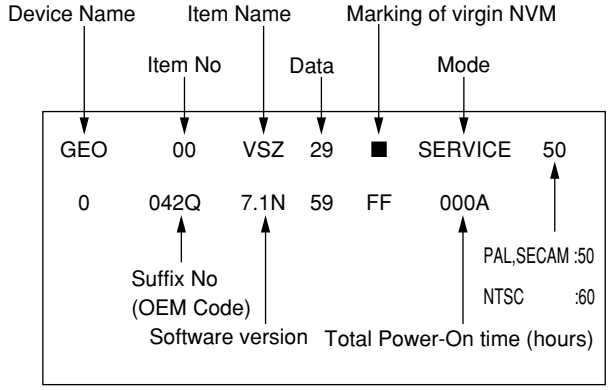
Service adjustments are made with the RM-958 that comes with this unit.

a. ENTERING SERVICE MODE

This operation sequence puts the unit into service mode.

→ [DISPLAY] → [5] → [VOL (+)] → [POWER]

The screen display is :



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), select an item of adjustment.
3) Press [MUTING] button and it will indicate WRITE on the screen.
4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

The screen display is :

[1], [4] ↓	Select the adjustment item.
[3], [6] ↓	Raise/lower the data value.
[MUTING] ↓	Writes.
[0]	Executes the writing.

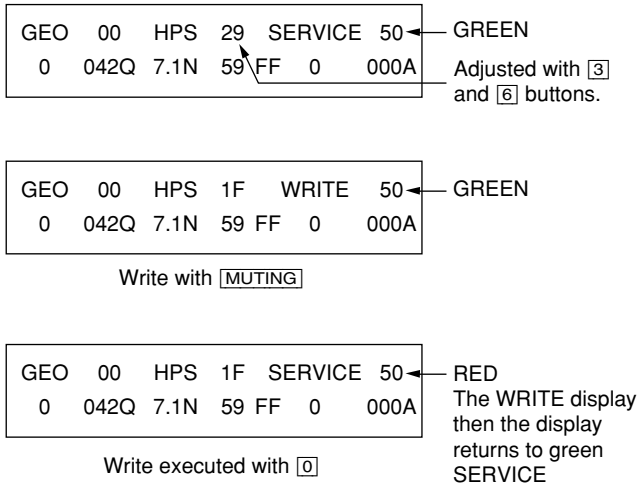
[7], [0]	All the data becomes the values in memory.
[8], [0]	All user control goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[DISPLAY], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.
[2], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.
[Cursor +/-]	Copy and write all data. example: GEO 00 VSZ ↕ DAC 00 HCT

6-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

This explanation uses V-size as an example.

1. Select "GEO 00 VSZ" with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)


GEO 00 HPS 29 SERVICE 50
0 042Q 7.1N 59 FF 0 000A
GREEN
Adjusted with 3 and 6 buttons.
GEO 00 HPS 1F WRITE 50
0 042Q 7.1N 59 FF 0 000A
GREEN
Write with MUTING
GEO 00 HPS 1F SERVICE 50
0 042Q 7.1N 59 FF 0 000A
RED
The WRITE display then the display returns to green SERVICE
Write executed with 0

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note : 1. In [WRITE], the data for all items are written into memory together.

2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.
3. Additional function to skip category (device) to category (device).
   example:
   GEO 00 VSZ
   ↕
   DAC 00 XXX
   The buttons for the function above should be ↑ and ↓.

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	PAL 50						NTSC 60						Device Name
Category	No.	Name					DRC 1250	DRC 1250V	PinP	PinPV	INDEX	TWIN	DRC 1250	60 VC	PinP	PinPV	INDEX	TWIN	
GEO	00	VSZ	21	3F	V SIZE	FF/4P*50/60*VC/NC, TW/IX*50/60	1B	21	1B	21	20	20	1D	21	1D	21	20	23	CXA2100AQ
	01	VPS	27	3F	V POSITION	FF/4P*50/60*VC/NC, TW/IX*50/60	25	24	25	24	23	25	27	27	27	27	25	29	
	02	VLN	5	0F	V LINESRITY	FF/R4/PR*50/60*VC/NC	06	06	06	06	06	06	06	06	06	06	06	06	
	03	SCO	0A	0F	S CORRECTION	FF/R4/PR*50/60*VC/NC	07	07	07	07	07	07	07	07	07	07	07	07	
	04	HSZ	1E	3F	H SIZE	FF/4P*50/60*VC/NC, TW/IX*50/60	26	27	26	27	1E	1E	24	24	24	24	23	1F	
	05	HPS	2F	3F	H POSITION	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	38	36	38	35	3B	3C	30	2F	30	30	31	36	
	06	DVH	5	0F	H POSITION OFFSET FOR DVD	50/60Hz (DVD)	06	06	06	06			07	07	07	07			
	07	PAP	28	3F	PIN AMP	FF/R4/PR*50/60*VC/NC	21	1F	21	1C	21	21	1F	20	1F	1F	1F	1F	
	08	UPN	25	3F	UPPER CONER PIN	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	1E	1D	1E	1D	1D	1E	1C	23	1C	1E	1C	1C	
	09	LPN	23	3F	LOWER CONER PIN	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	1C	16	1C	16	1B	1C	1B	1A	1B	1A	1B	1B	
	0A	TRZ	0C	0F	TRAPEZIUM	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	08	08	08	07	07	09	08	08	08	08	07	09	
	0B	AGL	0A	0F	AFC ANGLE	FF/R4/PR*50/60*VC/NC	07	07	06	07	06	06	07	07	06	07	06	06	
	0C	BOW	6	0F	AFC BOW	FF/R4/PR*50/60*VC/NC	08	07	07	06	07	07	07	07	08	07	08	08	
	0D	**LBL**	12	3F	LEFT H BLANKING	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	11	11	11	11	11	11	1C	1C	1C	1C	1C	1C	
	0E	**RBL**	2C	3F	RIGHT H BLANKING	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	2C	2C	2C	2C	2C	2C	23	23	23	23	23	23	
	0F	**MPN**	0	3	MIDDLE PIN DISTORTION COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	
	10	**UVL**	0	0F	UPPER LINEARITY	50/60Hz	00	00	00	00	00	00	00	00	00	00	00	00	
	11	**LVL**	0	0F	LOWER LINEARITY	50/60Hz	00	00	00	00	00	00	00	00	00	00	00	00	
	12	**HCP**	0	3	HORIZONTAL HIGH VOLTAGE COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	
	13	**VCP**	1	3	VERTICAL HIGH VOLTAGE COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	
	14	**VAS**	2F	3F	V ASPECT	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	2F	2E	2F	2E	2F	30	2F	31	2F	31	2F	2E	
	15	**VSC**	1F	3F	V SCROLL	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	22	22	22	22	22	24	22	22	22	22	22	23	
	16	**USC**	0	1	UNDER-SCAN MODE ON/OFF	50/60*VC/NC													
	17	**VBW**	0	3	V BLANKING WIDTH CONTROL	FF/R4/PR*50/60*VC/NC	00	03	00	03	00	00	00	03	00	03	00	00	
	18	**AT1**	2	3	AKB REFERENCE TIMING	FF/R4/PR*50/60*VC/NC	02	03	02	03	02	02	02	03	02	03	02	02	
	19	**CPY**	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA														

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	PAL 50						Eco Mode				NTSC 60						Device Name
Category	No.	Name					DRC 1250	DRC 1250V	PinP	PinPV	INDEX	TWIN	Eco On NC	Eco Off NC	Eco On VC	Eco Off VC	DRC 1250	60VC	PinP	PinPV	INDEX	TWIN	
DAC	00	HCT	33	FF	H CENTER	50/60Hz	30	30	30	30	30	30					6B	6B	6B	6B	6B	6B	MB88141
	01	HLN	27	3F	H LINEARITY	FF/4P*50/60	30	30	30	30	30	30					33	33	33	33	33	33	
	02	MDP	26	3F	MIDDLE PIN	FF/4P*50/60	1A	1A	1A	1A	1A	1A					1A	1A	1A	1A	1A	1A	
	03	CCP	37	3F	LOWER CONER PIN	FF/4P*50/60	1F	1F	1F	1F	1F	1F					1F	1F	1F	1F	1F	1F	
	04	HTR	26	3F	HORIZONTAL TRAPEZIUM	FF/4P*50/60	1F	1F	1F	1F	1F	1F					1F	1F	1F	1F	1F	1F	
	05	**DF**	01	1	DF ON/OFF SWITCH	FF/4P*50/60	01	01	01	01	01	01					01	01	01	01	01	01	
	06	**DPH**	1F	3F	DF PHASE	FF/4P*50/60	27	27	27	27	27	27					27	27	27	27	27	27	
	07	**QPH**	19	3F	QP PHASE	FF/4P*50/60	15	15	15	15	15	15					15	15	15	15	15	15	
	08	**QAC**	23	3F	QP AMPLITUDE	FF/4P*50/60	23	23	23	23	23	23					23	23	23	23	23	23	
	09	**QDC**	20	3F	QP DC LEVEL	FF/4P*50/60	20	20	20	20	20	20					20	20	20	20	20	20	
	0A	**QDV**	1F	3F	QP V MODULATION	FF/4P*50/60	1D	1D	1D	1D	1D	1D					1E	1E	1E	1E	1E	1E	
	0B	**QAV**	1A	3F	QP AMPLITUDE MODULATION	FF/4P*50/60	3F	3F	3F	3F	3F	3F					3F	3F	3F	3F	3F	3F	
	0C	**ABC**	0	FF	ABL D/A CONTROL	ECO on/off*VC/NC							00	00	7E	7E							
	0D	**CPY**	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA																		

TVG	Functionality		Initial	Range	Function	Table and Note	Common	Device Name
Category	No.	Name						
WHB	00	**CBO**	7	0F	DC OFFSET CANCELLER FOR CB1		0A	CXA2100AQ
	01	**CRO**	7	0F	DC OFFSET CANCELLER FOR CR1		0A	
	02	SBR	18	3F	SUB BRIGHTNESS CONTROL		24	
	03	**RDR**	29	3F	R DRIVE		29	
	04	GDR	25	3F	G DRIVE		25	
	05	BDR	26	3F	B DRIVE		20	
	06	**RCT**	29	3F	R CUTOFF		24	
	07	GCT	12	3F	G CUTOFF		07	
	08	BCT	31	3F	B CUTOFF		2F	
	09	**SBO**	29	3F	SUB BRIGHTNESS OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1C	
	0A	**RDO**	1F	3F	R DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0B	**GDO**	1A	3F	G DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1B	
	0C	**BDO**	1A	3F	B DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1B	
	0D	**RCO**	1F	3F	R CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0E	**GCO**	1E	3F	G CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0F	**BCO**	15	3F	B CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1A	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common			ECO MODE				50			60			PICTURE MODE				Device Name
Category	No.	Name						Twin	Index	Eco On NC	Eco Off NC	Eco On VC	Eco Off VC	TV	Video	DVD	TV	Video	DVD	Dynamic	Standard Drama	Hi-Fin /Soft	Personal	
SAJ	00	**PIC**	3F	3F	PICTURE CONTROL	EXCEPT PICTURE MODE, PERSONAL														3F	32	28		CXA2100AQ
	01	**BRT**	1F	3F	BRIGHTNESS CONTROL	EXCEPT PICTURE MODE, PERSONAL														23	1F	1B		
	02	**COL**	27	3F	COLOR CONTROL	EXCEPT PICTURE MODE, PERSONAL														28	23	23		
	03	**HUE**	1F	3F	HUE CONTROL	EXCEPT PICTURE MODE, PERSONAL														1F	1F	1F		
	04	**SHP**	24	3F	SHARPNESS CONTROL	EXCEPT PICTURE MODE, PERSONAL														22	1F	1D		
	05	**VML**	3	3	VM LEVEL	PICTURE MODE														03	03	01	03	
	06	**DYC**	1	1	DYNAMIC COLOR ON/OFF	PICTURE MODE														01	01	00	01	
	07	**CTM**	0	1	COLOR TEMPERATURE FOR DYNAMIC COLOR	PICTURE MODE														00	00	00	00	
	08	**CAX**	2	3	COLOR MATRIX SPECIFICATION	50/60Hz								02	02	02	01	01	01					
	09	**GMA**	3	3	GAMMA CORRECTION	PICTURE MODE														02	02	03	02	
	0A	**DCT**	1	3	DC TRANSMISSION CONTROL	PICTURE MODE														01	01	00	01	
	0B	**DPL**	1	3	AUTO PEDESTAL LEVEL CONTROL	PICTURE MODE														02	01	00	01	
	0C	**ABM**	0	3	ABL MODE CONTROL	PICTURE MODE														01	00	00	00	
	0D	**ABT**	0	3	ABL CURRENT DETECTION VTH CONTROL	Eco on/off*VC/NC				02	00	02	00											
	0E	**CLO**	9	0F	COLOR OFFSET	50/60*TV/Video								09	08		06	06						
	0F	**CLW**	3	7	COLOR STEP WIDTH TO THE CHANGE OF S/N		03																	
	10	**HUO**	9	0F	HUE OFFSET	50/60*TV/Video								08	08		09	09						
	11	**SHO**	7	1F	SHARPNESS OFFSET	50/60*TV/Video/DVD								14	17	0F	0C	0F	0F					
	12	**SHW**	1	7	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N		01																	
	13	**PIO**	5	7	PICTURE OFFSET FOR TWIN/INDEX	Twin/Index		07	07															
	14	**BRO**	7	0F	BRIGHTNESS OFFSET	Eco on/off*VC/NC				07	07	07	07											

TVG	Functionality		Initial	Range	Function	Table and Note	Common	50			60			PICTURE MODE				Device Name
Category	No.	Name						TV	Video	DVD	TV	Video	DVD	Dynamic	Standar /Drama	Hi-Fine Soft	Personal	
JGL	00	**PON**	1	1	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF		01											CXA2100AQ
	01	**RGB**	7	7	RGB OUTPUT SELECTION		07											
	02	**AGG**	0	3	AGING MODE SELECTION		00											
	03	**DPS**	0	1	Y/C DELAY LINE PASS MODE SWITCH		00											
	04	**BBT**	3	3	RGB BOTTOM LIMITTER CONTROL		03											
	05	**LML**	0	3	RGB AMPLITUDE LIMITTER CONTROL		00											
	06	**PAB**	0F	0F	DC LEVEL FOR PEAK ABL		0F											
	07	**SCO**	0C	0F	SUB PICTURE CONTROL		08											
	08	**LV2**	7	0F	RGB LEVEL FOR RGB2		07											
	09	**SF0**	1	1	SHARPNESS CIRCUIT F0	50/60*TV/Video/DVD		01	01	01	01	01	01					
	0A	**PRO**	0	3	PRE/OVER-SHOOT RATIO CONTROL	50/60*TV/Video/DVD		00	03	03	03	03	03					
	0B	**LTI**	2	3	LUMINANCE TRANSIENT IMPROVEMENT	PICTURE MODE								02	02	00	02	
	0C	**CTI**	1	3	CHROMINANCE TRANSIENT IMPROVEMENT	PICTURE MODE								01	01	00	01	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common					50			60			Device Name
Category	No.	Name						2D Comb	3D Comb	S-Input	Others	TV	Video	DVD	TV	Video	DVD	
YCT	00	TNT	1F	3F	TINT ADJUSMENT FOR NTSC	TV/Video						22	24		22	24		CXA2123Q
	01	**PNG**	0	1	PAL/NTSC GATE WIDTH		01											
	02	**PNI**	0	1	PAL/NTSC SENSITIVITY SW		00											
	03	SCL	7	0F	SUB COLOR CONTROL	50/60*TV/Video						05	07		06	07		
	04	SCT	8	0F	SUB CONTRAST CONTROL	50/60*TV/Video						08	07		05	07		
	05	**SF0**	2	3	SHARPNESS CENTER FREQUENCY CHANGING		02											
	06	**SEQ**	3	3	SHARPNESS EQUALIZER CHARACTERISTIC		03											
	07	**SHG**	5	0F	SHARPNESS GAIN CONTROL	50/60*TV/Video/DVD						05	05	07	0C	03	07	
	08	YOL	1F	3F	Y-OUTPUT LEVEL CONTROL		20											
	09	**BSP**	0	3	BLACK STRETCH START POINT CHANGING		00											
	0A	COL	1F	3F	CB/CR OUTPUT LEVEL CONTROL		14											
	0B	**DCR**	0	3	DC RESTORATION RATIO ADJUSTMENT		00											
	0C	**BF0**	1	3	BPF/TQF F0 ADJUSTMENT		01											
	0D	**BFQ**	2	3	BPF/TQF Q ADJUSTMENT		02											
	0E	**FSW**	1	1	BPF/TQF SWITCH		01											
	0F	**SDT**	1	1	SECAM DOUBLE TRAP SWITCH		01											
	10	**LPF**	1	1	Y/CB/CR LPF SWITCH		01											
	11	**YDL**	6	0F	Y-DL TIME ADJUSMENT	2D Comb/3D comb/ S-input/othes		06	05	03	05							
	12	**CMT**	0	1	CB/CR OUTPUT MUTE SWITCH		00											
	13	**BO1**	7	0F	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)		07											
	14	**RO1**	7	0F	CB OFFSET1 ADJUSTMENT		07											
	15	**CDF**	0	7	V COUNT DOWN FREQUENCY SWITCH	forced 50Hz for no signal	00											
	16	**CDM**	0	3	V COUNT DOWN JUDGE SWITCH		00											
	17	**AFC**	0	3	AFC SENSITIVITY SWITCH	TV/Video/DVD							00	00		00	00	
	18	**MVM**	0	1	MACROVISION + AFC MASK		00											
	19	**SRY**	7	0F	SECAM R-Y BLACK ADJUSTMENT		07											
	1A	**SBY**	1	0F	SECAM B-Y BLACK ADJUSTMENT		01											
	1B	**BEL**	2	3	SECAM BELL/HPF SWITCHING		02											
	1C	**BLF**	0	1	BELL F0 ADJUSTMENT		00											
	1D	**SVI**	0	1	SECAM V-ID SWITCH		00											
	1E	**SGP**	0	3	SECAM GATE POSITION ADJUSTMENT		00											
	1F	**SID**	1	1	SECAM SENSITIVITY SWITCH	except SECAM	01											
	20	**SIH**	0	1	SECAM INHIBITION SWITCH		00											
	21	**STP**	0	1	Y BLACK LEVEL SETUP FOR PAL PLUS		00											
	22	**HVC**	2	3	H-VCO TEMPERATURE CHARACTER CANCELLING		02											
	23	**3NR**	1	1	3D NR OPERATION ON/OFF		01											
	24	**BW6**	1	1	3D NR FOR 60HZ NON-BUST SIGNAL ON/OFF		01											
	25	**WSH**	0	3	SHARPNESS GAIN STEP FOR NOISE REDUCTION		00											
	26	**WCO**	0	3	DC RESTORATION RATIO ADJUSTMENT		00											

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common	COLOR MODE				50		60		60	Device Name
Category	No.	Name						S-Input	SECAM	NTSC	PAL	TV	Video	TV	Video	DVD	
SYC	00	TNT	1F	3F	TINT ADJUSMENT FOR NTSC	TV/Video						21	21	21	21		CXA2123Q
	01	**PNG**	0	1	PAL/NTSC GATE WIDTH		01										
	02	**PNI**	0	1	PAL/NTSC SENSITIVITY SW		00										
	03	SCL	7	0F	SUB COLOR CONTROL	50/60*TV/Video						06	07	05	07		
	04	SCT	7	0F	SUB CONTRAST CONTROL	50/60*TV/Video						08	08	04	07		
	05	**SF0**	2	3	SHARPNESS CENTER FREQUENCY CHANGING		02										
	06	**SEQ**	3	3	SHARPNESS EQUALIZER CHARACTERISTIC		03										
	07	**SHG**	7	0F	SHARPNESS GAIN CONTROL		07										
	08	YOL	1F	3F	Y-OUTPUT LEVEL CONTROL		1E										
	09	**BSP**	0	3	BLACK STRETCH START POINT CHANGING		00										
	0A	COL	1F	3F	CB/CR OUTPUT LEVEL CONTROL		1D										
	0B	**DCR**	0	3	DC RESTORATION RATIO ADJUSTMENT		00										
	0C	**BF0**	1	3	BPF/TQF F0 ADJUSTMENT		01										
	0D	**BFQ**	2	3	BPF/TQF Q ADJUSTMENT		02										
	0E	**FSW**	1	1	BPF/TQF SWITCH		01										
	0F	**SDT**	1	1	SECAM DOUBLE TRAP SWITCH		01										
	10	**LPF**	1	1	Y/CB/CR LPF SWITCH		01										
	11	**YDL**	3	0F	Y-DL TIME ADJUSMENT	PAL/NTSC/SECAM/S-Input		05	03	02	03						
	12	**NCM**	1	1	1-H ADDITION SWITCH		01										
	13	**CMT**	0	1	CB/CR OUTPUT MUTE SWITCH		00										
	14	**BO1**	7	0F	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)		07										
	15	**RO1**	7	0F	CB OFFSET1 ADJUSTMENT		07										
	16	**CDF**	0	7	V COUNT DOWN FREQUENCY SWITCH		00										
	17	**CDM**	0	3	V COUNT DOWN JUDGE SWITCH		00										
	18	**AFC**	0	3	AFC SENSITIVITY SWITCH	(TV)/Video/DVD							00		00	00	
	19	**MVM**	0	1	MACROVISION + AFC MASK		00										
	1A	**SRY**	7	0F	SECAM R-Y BLACK ADJUSTMENT		07										
	1B	**SBY**	1	0F	SECAM B-Y BLACK ADJUSTMENT		01										
	1C	**BEL**	2	3	SECAM BELL/HPF SWITCHING		02										
	1D	**BLF**	0	1	BELL F0 ADJUSTMENT		00										
	1E	**SVI**	0	1	SECAM V-ID SWITCH		00										
	1F	**SGP**	0	3	SECAM GATE POSITION ADJUSTMENT		00										
	20	**SID**	1	1	SECAM SENSITIVITY SWITCH	except SECAM	01										
	21	**SIH**	0	1	SECAM INHIBITION SWITCH		00										
	22	**STP**	0	1	Y BLACK LEVEL SETUP FOR PAL PLUS		00										
	23	**HVC**	2	3	H-VCO TEMPERATURE CHARACTER CANCELLING		02										

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common	Initial Value (Detailed)				Device Name
Category	No.	Name						Dynamic	Standard/Drama	Hi-Fine/Soft	Personel	
AP	00	**BAS**	0A	0F	BASE CONTROL	EXCEPT PESONAL		0B	08	07		TDA7315
	01	**TRE**	0A	0F	TREBLE CONTROL	EXCEPT PESONAL		0B	09	07		
	02	LDN	1	1	LOUDNESS CONTROL		01					

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
MSP	00	**WST**	15	FF	W/G STEREO THRESHOLD	15	MSP3415D
	01	**WBT**	EA	FF	W/G BILINGAUAL THRESHOLD	EA	
	02	**WLL**	5	FF	W/G MONOAURAL THRESHOLD	05	
	03	**WAC**	1	0F	W/G AGREEMENT COUNT	01	
	04	**WDL**	30	FF	W/G SEARCH DELAY	30	
	05	**NDL**	20	FF	NICAM SEARCH DELAY	20	
	06	**SDL**	10	FF	STEREO STATUS READ DELAY	10	
	07	**AGC**	1	1	AGC SWITCH AUTO/CONSTANT	01	
	08	**REL**	28	3F	AGC GAIN AT CONSTANT MODE	28	
	09	**CRM**	0	1	CARRIER MUTING ON/OFF	00	
	0A	**ACO**	1	1	AUDIO CLOCK ON/OFF	01	
	0B	**FP**	1B	7F	FM PRESCALE FOR NON-M SYSTEM	1B	
	0C	**FPM**	32	7F	FM PRESCALE FOR M SYSTEM	32	
	0D	**FH**	2D	7F	FM PRESCALE FOR HDEV	2D	
	0E	**FHM**	65	7F	FM PRESCALE FOR HDEV AND M	65	
	0F	**WGP**	2A	7F	W/G PRESCALE	2A	
	10	**NIP**	6D	7F	NICAM PRESCALE	6D	
	11	**ERR**	50	FF	AUTO FM SWITCH THRESHOLD	50	
	12	**VOL**	6D	FF	LOUDSPEAKER GAIN 0700H TO 07FFH	6D	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common				PICTURE MODE				Device Name
Category	No.	Name						Twin	TV	Video	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	
LTI	00	**LDH**	1	1	HISTOGRAM SEGMENT SELECTION		01								TDA9178
	01	**CFS**	1	1	COUNTER FILTER SELECTION		01								
	02	**WLB**	0	1	LETTERBOX WINDOW SWITCH		00								
	03	**VDC**	1	1	VIDEO DEPENDENT CORING	PICTURE MODE					01	01	01	01	
	04	**DEM**	0	1	DEMONSTRATION MODE		00								
	05	**CDP**	4	07	LUMINANCE DELAY		04								
	06	**OSP**	0	1	OVERRULE SMART PEAKING		00								
	07	**WPO**	0	1	WHITE POINT STRETCH OFF		00								
	08	**DSK**	0	1	SKIN TONE SWITCH	PICTURE MODE					00	00	00	00	
	09	**ASK**	0	1	SKIN TONE ANGLE SELECTION		00								
	0A	**WSK**	0	1	SKIN TONE WIDTH SELECTION		00								
	0B	**SSK**	0	1	SKIN TONE SIZE SELECTION		00								
	0C	**DGR**	1	1	GREEN ENHANCEMENT SWITCH	PICTURE MODE AND MULTIPLE MODE		00			01	01	00	01	
	0D	**DGT**	7	7	THRESHOLD OF GREEN ENHANCEMENT SWITCH		07								
	0E	**GGR**	0	1	GREEN ENHANCEMENT GAIN		00								
	0F	**WGR**	0	1	GREEN ENHANCEMENT WITDH		00								
	10	**SGR**	0	1	GREEN ENHANCEMENT SIZE		00								
	11	**DBL**	0	1	BLUE STRETCH SWITCH		00								
	12	**GBL**	0	1	BLUE STRETCH GAIN SELECTION		00								
	13	**SBL**	0	1	BLUE STRETCH SIZE SELECTION		00								
	14	**CDS**	1	1	COLOR DEPENDENT SHARPNESS	PICTURE MODE					01	01	00	01	
	15	**CST**	7	7	THRESHOLD OF COLOR DEPENDENT SHARPNESS		07								
	16	**CTI**	0	1	COLOR TRANSIENT IMPROVEMENT	PICTURE MODE					00	00	00	00	
	17	**BON**	0	1	BLACK OFFSET COMPENSATION	PICTURE MODE					00	00	00	00	
	18	**BTD**	0	3F	ADAPTIVE BLACK STRETCH	PICTURE MODE					00	00	00	00	
	19	**NLD**	15	3F	NON-LINEARITY AMPLIFIER	PICTURE MODE AND MULTIPLE MODE		00			15	15	00	15	
	1A	**NLW**	7	7	STEP WIDTH OF NON-LINEARITY AMPLIFIER		07								
	1B	**VGD**	15	3F	VARIABLE GAMMA	PICTURE MODE AND MULTIPLE MODE		1F			1F	1F	1F	1F	
	1C	**VGW**	0	7	STEP WIDTH OF VARIABLE GAMMA		00								
	1D	**PKD**	3F	3F	PEAKING AMPLITUDE	PICTURE MODE					3F	30	0E	30	
	1E	**PKW**	8	0F	STEP WIDTH OF PEAKING AMPLITUDE		08								
	1F	**SPD**	0	3F	STEPNESS CORRECTION	PICTURE MODE					00	00	00	00	
	20	**CRD**	11	3F	CORING LEVEL	PICTURE MODE					16	16	00	16	
	21	**CRW**	9	0F	STEP WIDTH OF CORING LEVEL		09								
	22	**CRO**	0	0F	CORING LEVEL OFFSET FOR VIDEO MODE		01								
	23	**LWD**	1F	3F	LINE WIDTH CORRECTION		1F								
	24	**SNM**	0	7	S/N MODE UNDER UNREALIBLE S/N CONDITION		00								
	25	**SNC**	3	0F	S/N RATIO AVERAGE COUNTER	TV/Video			03	03					
	26	**FMC**	2	0F	FEATURE MODE MATCHING COUNTER		02								

Adjustment Item Table

TVG	Functionality		Function	50						60						Device Name
Category	No.	Name		Single DRC 1250	Single DRC Progressive	PinP	TWIN	INDEX	Single DRC 100	Single DRC 1250	Single DRC Progressive	PinP	TWIN	INDEX	Single DRC 100	
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	52	52	52	92	8D	52	52	52	52	7E	78	52	MB94918
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	20	20	20	2A	26	12	25	25	25	2E	2D	14	
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	03	VSZ	VERTICAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	04	HPW	DISPLAY H-SYNC PLUS WIDTH	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	
	05	VPW	DISPLAY V-SYNC PLUS WIDTH	03	03	03	03	03	03	03	03	03	03	03	03	
	06	YDL	DISPAY OUTPUT Y/C DELAY CORRECTION	00	00	00	00	00	00	00	00	00	00	00	00	
	07	MHP	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	0B	PHP	PINP SUB PICTURE HORIZONTAL POSITION			6B						53				
	0C	PVP	PINP SUB PICTURE VERTICAL POSITION			5E						57				
	0D	PHS	PINP SUB PICTURE HORIZONTAL SIZE			7F						7F				
	0E	PVS	PINP SUB PICTURE VERTICAL SIZE			7F						7F				
	0F	PHO	PINP SUB PICTURE HORIZONTAL POSITION OFFSET			76						68				
	10	PVO	PINP SUB PICTURE VERTICAL POSITION OFFSET			6E						6B				
	11	TMP	TWIN MAIN PICTURE HORIZONTAL POSITION				00						00			
	12	TSP	TWIN SUB PICTURE HORIZONTAL POSITION				01						01			
	13	TVP	TWIN MAIN & SUB PICTURE VERTICAL POSITION			00	00	00				00	00	00		
	14	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE			00	00	00				00	00	00		
	15	TVS	TWIN MAIN & SUB PICTURE VERTICAL SIZE	00	00	00	00	00	00	00	00	00	00	00	00	
	16	THO	TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET													
	17	TVO	TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET													
	18	XHS	INDEX SUB PICTURE HORIZONTAL SIZE													
	19	XVS	INDEX SUB PICTURE VERTICAL SIZE													
	1A	XHG	INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES													
	1B	XVG	INDEX VERTICAL GAP WIDTH BETWEEN PICTURES													
	1C	XHP	INDEX 1ST SUB PICTURES HORIZONTAL POSITION													
	1D	XVP	INDEX 1ST SUB PICTURES VERTICAL POSITION													
	1E	DHP	DRC HORIZONTAL ACTIVE AREA POSITION	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	1F	DHS	DRC HORIZONTAL ACTIVE PIXEL SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	20	DVP	DRC VERTICAL ACTIVE AREA LINE POSITION	1A	1A	1A	3F	3F	1A	1A	1A	1A	39	39	1A	
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION			7F	7F	7F				7F	7F	7F		
	23	VHS	VDO HORIZONTAL ACTIVE PIXEL SIZE			7F	7F	7F				7F	7F	7F		
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION			1E	1E	1E				1B	1B	1B		
	25	VVS	VDO VERTICAL ACTIVE AREA LINE SIZE			7F	7F	7F				7F	7F	7F		
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION			00	00	00				00	00	00		
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING			7F	7F	7F				7F	7F	7F		
	28	CLW	VDO CLAMP PULSE WIDTH			04	04	04				04	04	04		
	29	VYD	VDO ANALOG INPUT Y/C DELAY CORRECTION			00	00	00				00	00	00		
	2A	VCR	VDO CROMA SIGNAL ORDER			01	01	01				01	01	01		
	2B	VDI	VDO DIGITAL ANALOG INPUT SELECTION			00	00	00				00	00	00		

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common			NR MODE				PICTURE TUBE				Device Name
Category	No.	Name						TV	Video	NRmode0	NRmode1	NRmode2	NRmode3	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	
3CM	00	FRZ	0	1	EXTERNAL MEMORY TEST BIT		00											UPD64082
	01	NRM	0	3	NOISE REDUCTION OPERATION MODE													
	02	YCO	0E	0F	Y/C SIGNAL OUTPUT SELECTION		0D											
	03	SYC	1	3	SYSTEM CLOCK SELECTION		01											
	04	STD	0	3	STANDARD/NON-STANDARD OPERATION SELECTION		00											
	05	MSS	0	3	INTER-FRAME/INTER-LINE OPERATION SELECTION		00											
	06	KIL	3	3	KILLER/NON-KILLER OPERATION SELECTION		03											
	07	EAD	0	1	EXTERNAL Y-ADC SWITCH		00											
	08	ECS	1	3	EXTERNAL C-SYNC INPUT SELECTION		01											
	09	CPP	2	3	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION		02											
	0A	PWR	0	1	ADC INPUT WIDTH SWITCH		00											
	0B	HDP	5	7	HORIZONTAL PHASE ADJUSTMENT		05											
	0C	CDL	4	7	C-SIGNAL ADJUSTMENT		04											
	0D	DYC	2	0F	DY DETECTION CORING LEVEL ADJUSTMENT	NR MODE (0-3)				02	02	02	04					
	0E	DYG	0A	0F	DY DETECTION GAIN ADJUSTMENT	NR MODE (0-3)				0A	0A	0A	0A					
	0F	DCC	5	0F	DC DETECTION CORING LEVEL ADJUSTMENT	NR MODE (0-3)				05	03	03	05					
	10	DCG	5	0F	DC DETECTION GAIN ADJUSTMENT	NR MODE (0-3)				05	0A	0A	05					
	11	YNR	1	0F	YNR NON-LINEAR FILTER SETUP		01											
	12	CNR	1	0F	CNR NON-LINEAR FILTER SETUP		01											
	13	WSC	1	3	NOISE DETECTION CORING ADJUSTMENT		01											
	14	VTH	1	3	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD	TV/Video		01	01									
	15	VTR	1	3	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD	TV/Video		01	01									
	16	LDR	2	3	SENSITIVITY SELECTION FOR FRAME-SYNC NON STANDARD	TV/Video		02	02									
	17	VAP	3	7	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION	PICTURE MODE								03	00	00	00	
	18	VAI	0C	1F	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION	PICTURE MODE								0C	00	00	00	
	19	TST	0	1	TEST BIT		00											
	1A	YPF	3	3	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF	PICTURE MODE								03	03	03	03	
	1B	YPG	8	0F	GAIN ADJUSTMENT FOR Y-PEAKING BPF	PICTURE MOD								0A	08	08	08	
	1C	VSE	0A	0F	LINE COMB FILTER SETUP		0A											
	1D	CCN	0	1	C-SIGNAL SPLIT FILTER SETUP		00											
	1E	COS	0	1	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION		00											
	1F	SDC	0	1	DC DETECTION SENSITIVITY SWITCH		00											
	20	SDY	1	1	DY DETECTION LOWER-LEVER SENSITIVITY SWITCH		01											
	21	D2G	4	7	D2 GAIN SELECTION		04											
	22	YHC	0	3	Y-SIGNAL HIGHER-LEVEL CORING SELECTION	PICTURE MOD	00							00	00	00	00	
	23	YHG	0	1	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH	PICTURE MOD	00							00	00	00	00	
	24	SHT	0	0F	NON-STANDARD DETECTION & H/V COUNTER TEST BITS		00											
	25	CLK	8	0F	CLOCK TEST BIT		08											
	26	PLL	0D	0F	PLL FILTER SETUP		0D											
	27	KRF	3	0F	KILLER DETECTION REFERENCE ADJUSTMENT		03											
	28	HSL	0C	0F	H-SYNC SLICE LEVEL ADJUSTMENT		0C											
	29	VSL	8	0F	V-SYNC SLICE LEVEL ADJUSTMENT		08											
	2A	BPS	4	0F	INTERNAL BURST GATE START POSITION ADJUSTMENT		04											
	2B	BPW	0A	0F	INTERNAL BURST GATE WIDTH ADJUSTMENT		0A											
	2C	ADC	3	3	ADC CLOCK DELAY SELECTION		03											
	2D	APD	1	1	ADC POWER-DOWN SWITCH		01											
	2E	NSD	1	1	NON-STANDARD DETECTION TEST BIT		01											
	2F	SPD	2	3	MEMORY POWER-DOWN SWITCH		02											
	30	CNT	0	1	CNR TEST BIT		00											

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common	Initial Value (Detailed)									Device Name
								Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	
Category	No.	Name															
DSP	00	**DUL**	0	3	DIP UNLOCK DETECTION MODE		00										TC9446F
	01	**DIM**	3	3	DIGITAL INPUT MODE		03										
	02	**TFM**	5A	7F	TRUSURROUND FRONT MINUS	VDD/VDP		5A	5A								
	03	**TFP**	12	7F	TRUSURROUND FRONT PLUS	VDD/VDP		12	12								
	04	**TCE**	40	7F	TRUSURROUND CENTER	VDD/VDP		40	40								
	05	**TS1**	20	FF	TRUSURROUND SURROUND #1	VDD/VDP		20	EO								
	06	**TS2**	20	7F	TRUSURROUND SURROUND #2	VDD/VDP		20	20								
	07	**TSP**	7B	7F	TRUSURROUND SURROUND PLUS	VDD/VDP		68	68								
	08	**TSM**	7B	7F	TRUSURROUND SURROUND MINUS	VDD/VDP		68	68								
	09	**LFE**	5A	7F	LOW FREQUENCY EFFECT		5A										
	0A	**BHL**	40	7F	BBE EFFECT 1 FOR BBE HIGH	VDD/VDP/TRS/SIM/OFF		33	33	33	28	40					
	0B	**BHH**	48	7F	BBE EFFECT 2 FOR BBE HIGH	VDD/VDP/TRS/SIM/OFF		33	33	33	28	40					
	0C	**BLL**	33	7F	BBE EFFECT 1 FOR BBE LOW	VDD/VDP/TRS/SIM/OFF		2B	2B	2B	24	33					
	0D	**BLH**	33	7F	BBE EFFECT 2 FOR BBE LOW	VDD/VDP/TRS/SIM/OFF		2B	2B	2B	24	33					
	0E	**DLR**	1	7	DELAY SELECTION AT DSP RESET		07										
	0F	**BBE**	1	3	BBE SELECTION	EXCEPT PERSONAL							01	01	03		

TVG	Functionality		Initial	Range	Function	Table and Note	VIDEO PICTURE MODE				TV PICTURE MODE				Device Name
							Dynamic	Standard 00	Hi-Fine/ Soft	Personal	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	
Category	No.	Name													
2CM	00	**APA**	1	1	2D COMB APACON ON/OFF	PICTURE MODE	01	00	00	00	00	00	00	00	CXA2069Q

TVG	Functionality		Initial	Range	Function	**50**	**60**	Common	Device Name
Category	No.	Name							
TXT	00	TXH	4B	3F	TELETEXT HORIZONTAL POSITION FOR PHILIPS			4B	SAA5261
	01	TXV	0E	3F	TELETEXT VERTICAL POSITION FOR PHILIPS			0E	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table and Note	Common	Initial Value (Detailed)		Device Name
Category	No.	Name						50	60	
OPM	00	OSH	12	3F	OSD H POSITION		12			CXP750096
	01	FW1	0	3F	OSD ODD/EVEN FIELD WINDOW SETUP #1		00			
	02	FW2	3	3F	OSD ODD/EVEN FIELD WINDOW SETUP #2		03			
	03	OHO	9	0F	OSD H Position Offset for INDEX		05			
	04	IL1	1C	3F	INDEX SUB-SCREEN OSD 1st LINE VERTICAL POSITION	50/60Hz		25	22	
	05	IVO	2F	3F	INDEX SUB-SCREEN OSD VERTICAL POSITION	50/60Hz		2B	20	
	06	**COM**	0	03	COMB OPERATION SELECTION		00			
	07	**APC**	1	1	APC SWITCH		01			
	08	**TSY**	0	03	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM		03			
	09	**MUT**	0	1	NO SIGNAL MUTE		01			
	0A	**AFM**	1	1	AUTO FM SWITCH		01			
	0B	TVO	3	7	V-ANGLE CORRECTION TO PICTURE ROTATION		03			
	0C	DBL	0	1	DISABLE BLUEBACK FUNCTION		01			
	0D	**SSO**	1	3	SPEED CH SEARCH SELECTION		01			
	0E	TRP	0	3F	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT		00			
	0F	SCH	1	7F	CH SELECTION FOR SHIPPING CONDITION	NTSC	07			
	10	SCA	1	1	CABLE/AIR SELECTION FOR SHIPPING CONDITION	NTSC	01			
	11	DMG	0	1	DISABLE MENU-OPERATION GUIDE		00			
	12	VSN	0	1	ENABLE NOISE REDUCTION IN VIDEO MODE		00			
	13	RUC	0F	0F	RF SIGNAL CHANGE COUNTER AFTER UNLOCKED	Disabled if set to OFH	04			
	14	RLC	0F	0F	RF SIGNAL CHANGE COUNTER AFTER LOCKED	Disabled if set to OFH	01			
	15	LBB	0	1	LOWER BLUE BACK INTENSITY		00			

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
OPB	00	OP1	E7	FF	OPTION BIT 1 (SEE THE SPECIFIED SHEET)	07	option-bit
	01	OP2	13	FF	OPTION BIT 2 (SEE THE SPECIFIED SHEET)	09	

Abbreviation:

FF = Flicker Free
R4 = DRC1250
PR = Progressive (PIP)
4P = R4 or PR
VC = V-Compressed Mode
NC = Non-compressed Mode
ECO = Eco Mode
VC = V-Compressed Mode
NC = Non-Compressed Mode
Sur = Surround
VDD = Virtual Dolby Digital
VDP = Virtual Dolby Prologic
TRS = Tru Surround
SIM = Simulated

NOTE

- shaded items are fixed data.
- no data
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

COM Comb Operation Selection — 00 = automatic operation (depends on color system status), 01 = no comb operation, 02 = forced 2D-comb operation, 03 = forced 3D-comb operation

TSY TV System Selection for Auto TV System — 00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection — 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD

OP1 Items

Item	TOP	NICAM	HDEV	Reserved	DRC 3 Mode	DVD Input	AV Input	
KV-ES38N90	1	1	1	0	0	1	1	1

DRC 3 Mode DRC - MF3 Mode 1 = 3 Mode (ES38)
AV Input 00 = no AV Input 01 = 1 AV Input 10 = 3 AV Input 11 = 4 AV Input

OP2 Items

Item	(reserved)	Korea Stereo	Video N3.58	A-TV SYS	USST	SSV - Model	OSD Language	
KV-ES38N90	0	0	0	0	0	0	0	1

K-stereo Korean Stereo 0 = Disabled, 1 = Enabled
Video N3.58 Video Color System 0 = Multi system, 1 = Single system (NTSC 3.58)
US ST USA Stereo (MTS) 0 = Disabled, 1 = Enabled
A-TV sys Auto TV System in Auto Program 0 = Disabled, 1 = Enabled
OSD Language 00 = English only, 01 = English & Chinese, 10 = English & Arabic 11 = English, Chinese & Arabic

NOTE

No.	Modes	Details	Entry Conditions
1.	50NC/60NC	Signal 50/60Hz Non-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode OFF (TV/ video mode)
2.	50VC/60VC	Signal 50/60Hz V-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode ON (TV/ Video mode)
3.	ECO ON/OFF NC	Eco modeON/OFF Non-Compressed mode.	ECO mode ON/OFF, wide mode OFF
4.	ECO ON/OFF VC	ECO mode ON/OFF V-Compressed mode.	ECO mode ON/OFF, wide mode ON
5.	50/60 DVD	Signal 50/60Hz Digital Video Disk	Input 50Hz(PAL)/60Hz(NTSC), DVD
6.	Multi Comb	Multi Comb Filter	Input PAL, NTSC 3.58, Service mode category OPM 03 COM 01 (Multi Model only)
7.	3D Comb	3 Dimensional Comb Filter	Input NTSC 3.58 only, Service mode category OPM 03 COM 02 (NTSC model only)
8.	S-Input	S-Video Input	Connect S-Video Cable, video mode

6-3. PICTURE QUALITY ADJUSTMENTS

H-TRAPIZIUM ADJUSTMENT

1. Input a cross hatch/dot signal.
2. Adjust DAC 4 HTR to make H-Trapizoid distortion best.

SUB CONTRAST, SUB HUE, SUB COLOR

Adjustment condition

SAJ	00	PIC	3F
	06	DYC	0
	0E	CLO	6
	10	HUO	7
	13	PIO	0
JGL	04	BBT	0
	05	LML	3

PICTURE QUALITY : HI-FINE
ECO MODE : OFF
WIDE MODE : OFF
DRC-MF : DRC1050

INPUT SIGNAL

Video Color Bar (White and Color 75%)
RF Color Bar (White and Color 75%)

MEASUREMENT POINT

VR ; R100 (the pin 6 of CN1100 at A board)
VB ; B100 (the pin 7 of CN1100 at A board)

CAUTION
After the above Adjustment, these adjustment parameters must be recovered to the original condition.

Original condition

SAJ 00 PIC 28 HI-FINE
SAJ 06 DYC 0 HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
OE CLO	9	8	6	6
10 HUO	8	8	9	9

13 PIO TWIN = 3
JGL 04 BBT 3
05 LML 0

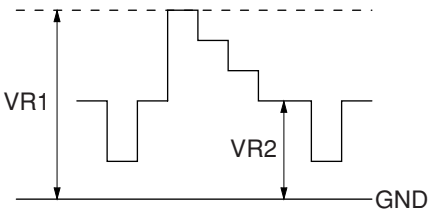
1. NTSC VIDEO IN PUT

Input signal ; NTSC color bar, 75% to Video 1.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
02 COL 0
JGL 01 RGB 4
SAJ 13 PIO 0

Adjusting parameter:
LEFT ; YCT 08 YOL
RIGHT ; SYC 08 YOL

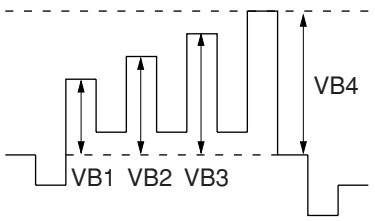


VR1 - VR2 = VR = 1.85 ± 0.07 (Vp-p)

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
JGL 01 RGB 7
SAJ 10 HUO 7

Adjusting parameter:
LEFT ; YCT 0A COL
YCT 00 TNT
RIGHT ; SYC 0A COL
SYC 00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

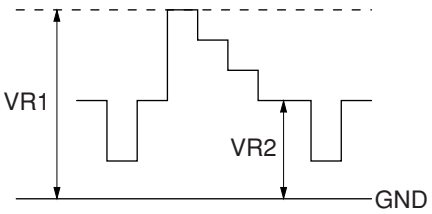
2. NTSC RF INPUT

Input signal ; NTSC RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
02 COL 0
JGL 01 RGB 4

Adjusting parameter:
LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT

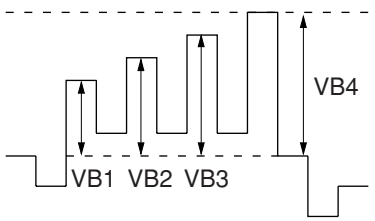


VR1 - VR2 = VR = 1.85 ± 0.07 (Vp-p)

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
JGL 01 RGB 7
SAJ 10 HUO 7

Adjusting parameter:
LEFT ; YCT 03 SCL
YCT 00 TNT
RIGHT ; SYC 03 SCL
SYC 00 TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

3. PAL RF INPUT

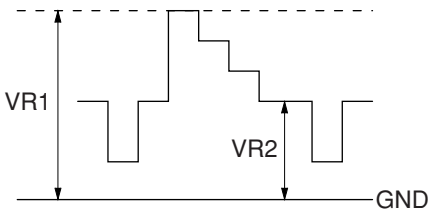
Input signal ; PAL RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
SAJ 02 COL 0
JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT



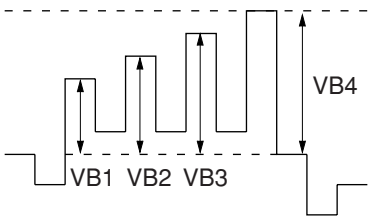
VR1 - VR2 = VR = 1.85 ± 0.07 (Vp-p)

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
JGL 01 RGB 7

Adjusting parameter:

LEFT ; YCT 03 SCL
RIGHT ; SYC 03 SCL



VB2 = VB3 = VB4 = ± 70 mV

6-4. DEFLECTION ADJUSTMENTS

FOR DRC 1050 MODE

1. Set to Service Mode.
2. Input a Pal cross hatch/dot signal.
3. Set the following condition.
   Picture Mode to [DYNAMIC], Picture Rotation to [+/– 0] and Eco Mode to OFF.
4. Set to DRC 1250 mode.
5. Using the [1] and [4] buttons select category GEO (Service Mode).
6. Raise/lower the data with the [3] and [6] buttons. Select and adjust the following items to obtain optimum image.

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW

7. Using the [1] and [4] buttons select category DAC (Service Mode).
8. Select and adjust the following items to obtain optimum image. Raise/lower the data with the [3] and [6] buttons. Select and adjust the following item to obtain optimum image.

GEO:	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

9. Select “GEO 04 HSZ” with the [1] and [4] buttons.
10. Confirm the H Size condition. If necessary, adjust the H SIZE to get a best condition.
11. Write into the memory by pressing [MUTING] then [0] on the remote commander.

FOR DRC100(50Hz) MODE

12. Change the DRC-MF to DRC100 and then adjust the following items.
    Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW

13. Repeat step 5 and 6.

FOR PIP(50Hz) MODE

14. Change to PIP mode. (PIP: ON) and then adjust the following items.
    Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

15. Repeat step 5, 6 and 8.

FOR TWIN(50Hz) MODE

16. Change to TWIN mode (TWIN: ON)
17. Copy “GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 50Hz)”
    “GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 50Hz)”
18. Adjust “ GEO 09 TRZ”.

FOR PROGRAM INDEX(50Hz) MODE

19. Change to PROGRAM INDEX MODE.
20. Write “GEO 00 VSZ (INDEX 50Hz)” as “GEO 00 VSZ (PIP 50Hz)” - 4 step.
21. Copy “GEO 01 VPS, 04 HSZ, 05 HPS (PIP 50Hz)” to
    “GEO 01 VPS, 04 HSZ, 05 HPS (INDEX 50Hz)”.
22. Adjust “GEO 09 TRZ”.

FOR WIDE MODE DRC1050(60Hz)

23. Change to VIDEO MODE.
24. Change to DRC-MF: DRC1250, WIDE MODE: ON
25. Adjust the following item.
    Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

26. Repeat step 5, 6 and 8.

FOR WIDE MODE, DRC100(50Hz)

27. Change to VIDEO MODE.
28. Change to DRC-MF: DRC100, WIDE: ON
29. Adjust the following item.
    Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

FOR WIDE MODE, PIP(50Hz)

30. Change to VIDEO MODE.
31. Change to PIP: ON, WIDE MODE: ON
32. Adjust all items listed in number no.29.
33. Repeat step 5, 6 and 8.

FOR DRC1050(60Hz) MODE

34. Input 525/60Hz signal. Change to DRC-MF: DRC1250.
35. Copy “DAC 00 HCT (DRC1250, 50Hz)” to
    “DAC 00 HCT (DRC1250, 60Hz)”.
36. Adjust the following items.

    Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

37. Repeat step 5, 6 and 8.

FOR DRC100(60Hz) MODE

38. Change to DRC-MF: DRC100 and then adjust the items listed in no.36.

FOR PIP(60Hz) MODE

39. Change to PIP mode (PIP: ON) and then adjust the items listed in no.36.
40. Repeat step 5, 6 and 8.

FOR TWIN(60Hz) MODE

41. Change to TWIN: ON
42. Copy “GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 60Hz)” to
    “GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 60Hz)”
43. Adjust “ GEO 09 TRZ”.

FOR PROGRAM INDEX(60Hz) MODE

43. Change to PROGRAM INDEX MODE.
44. Copy “GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 60Hz)” to
    “GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 60Hz)”
45. Adjust “ GEO 09 TRZ”.
46. Repeat step 5, 6 and 8.

FOR WIDE MODE, DRC1050(60Hz)

47. Change to VIDEO MODE: Input 525/60Hz singal.
48. Change to DRC-MF: DRC1050, WIDE MODE: ON
49. Adjust the items listed in no.36.

FOR WIDE MODE, DRC100(60Hz)

50. Change the VIDEO MODE: Input 525/60Hz signal.
51. Change to DRC-MF: DRC100, WIDE MODE: ON.
52. Adjust the items listed in no.36 and repeat step 5, 6 and 8.

FOR WIDE MODE, PIP(60Hz)

53. Change the VIDEO MODE: Input 525/60Hz signal.
54. Change to PIP: ON, WIDE MODE: ON.
55. Adjust the items listed in no.36 and repeat step 5, 6 and 8.

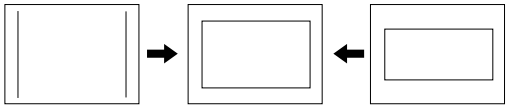
6-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons 5 and 0 (Data Initialize), and 2 and 0 (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the items with fine adjustment.
4. Select item numbers “OPB00” (OP1), “OPB01” (OP2) and respectively set the bit per model with command buttons 3 and 6.
5. Press commander buttons 8 and 0 (Test Normal) to return to the data that was set on the shipment from the factory. (This will also cancel Service Mode).

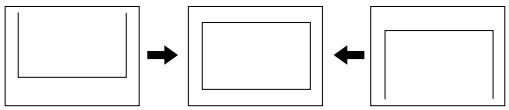
6-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

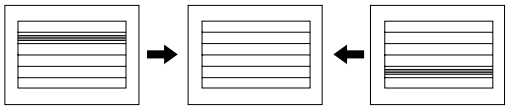
GEO 0 VSZ (V SIZE)



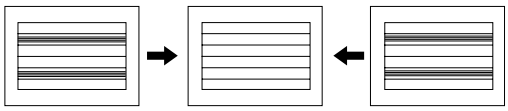
GEO 1 VPS (V POSITION)



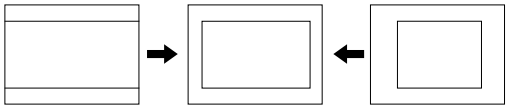
GEO 2 VLN (V LINEARITY)



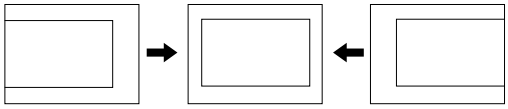
GEO 3 SCO (VERTICAL S-Correction)



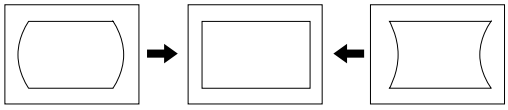
GEO 4 HSZ (H SIZE)



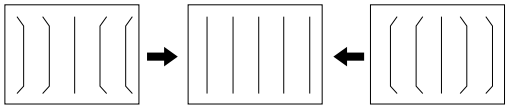
GEO 5 HPS (H POSITION)



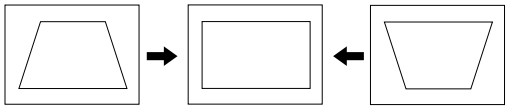
GEO 6 PAP (PIN AMP)



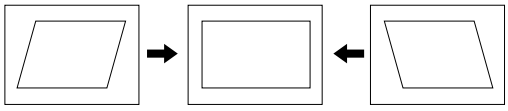
GEO 07 UPN (UPPER CORNER PIN)
GEO 08 LPN (LOWER CORNER PIN)



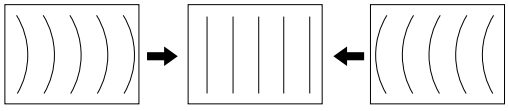
GEO 9 TRZ (TRAPEZIUM)



GEO 0A AGL (AFC.ANGLE)

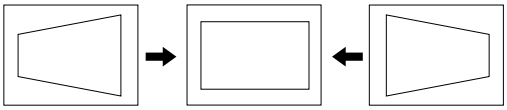


GEO 0B BOW (AFC.BOW)



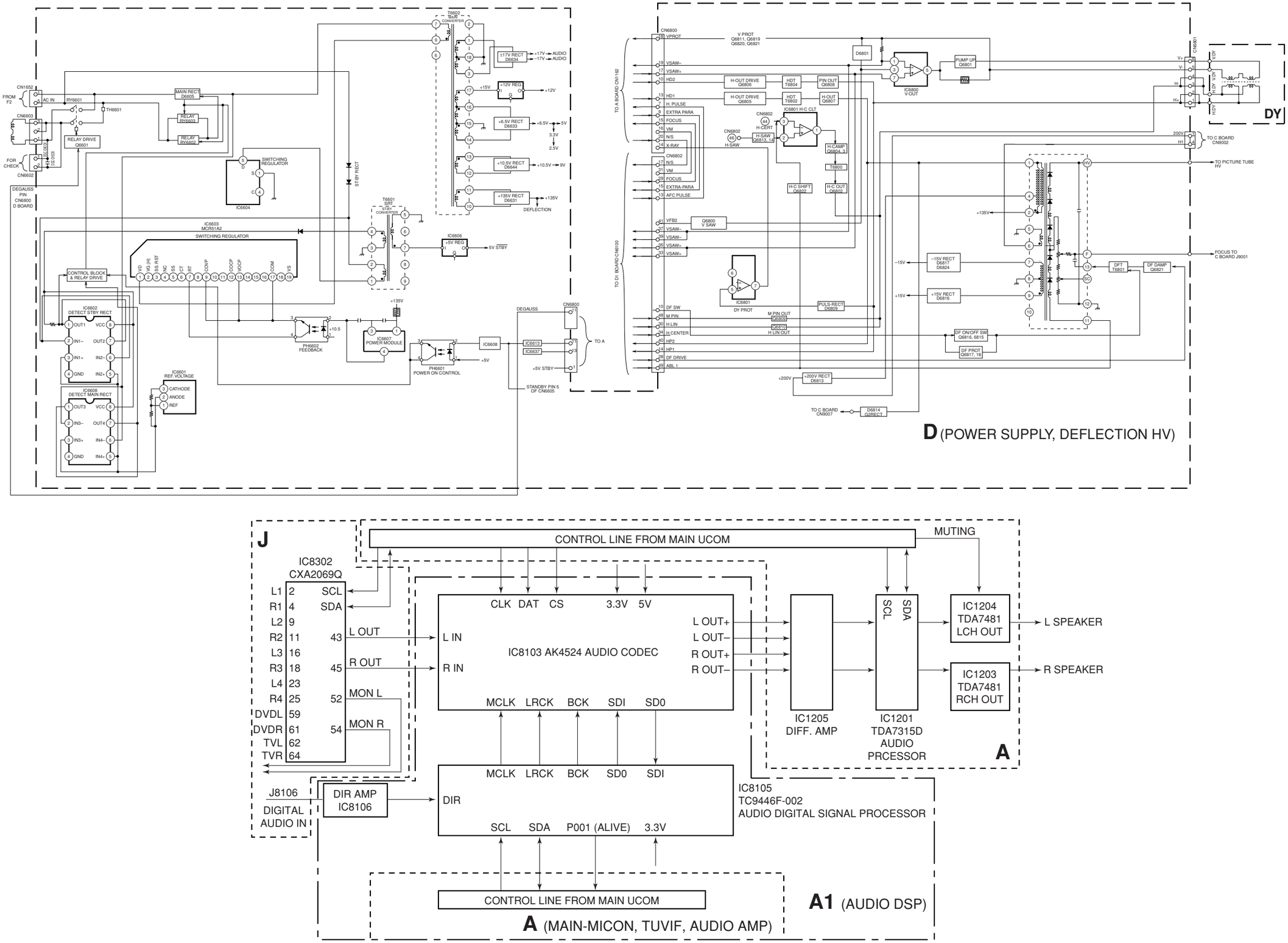
PICTURE DISTORTION ADJUSTMENT (2)

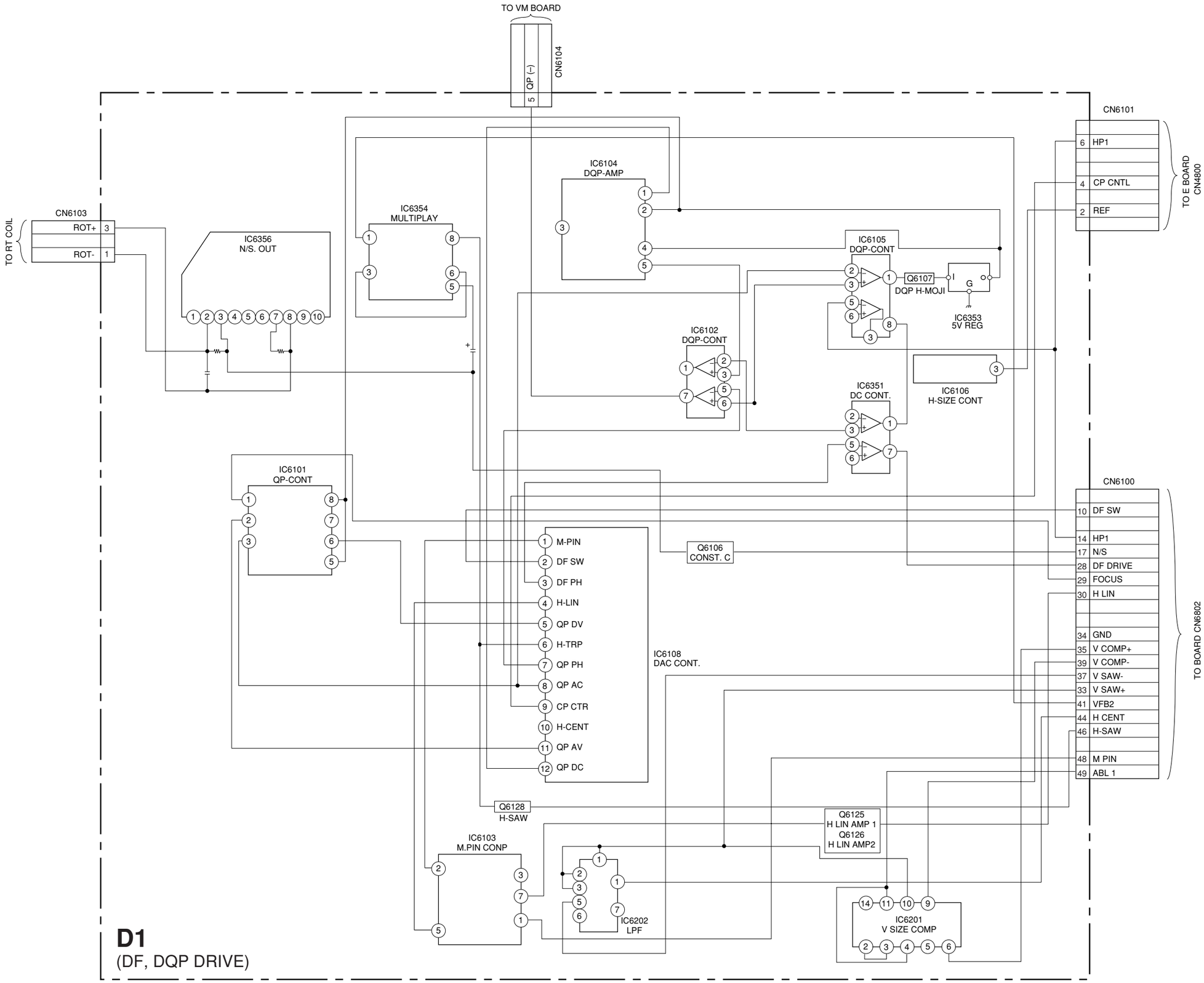
H-TRAPEZOID (DAC 4 HTR)

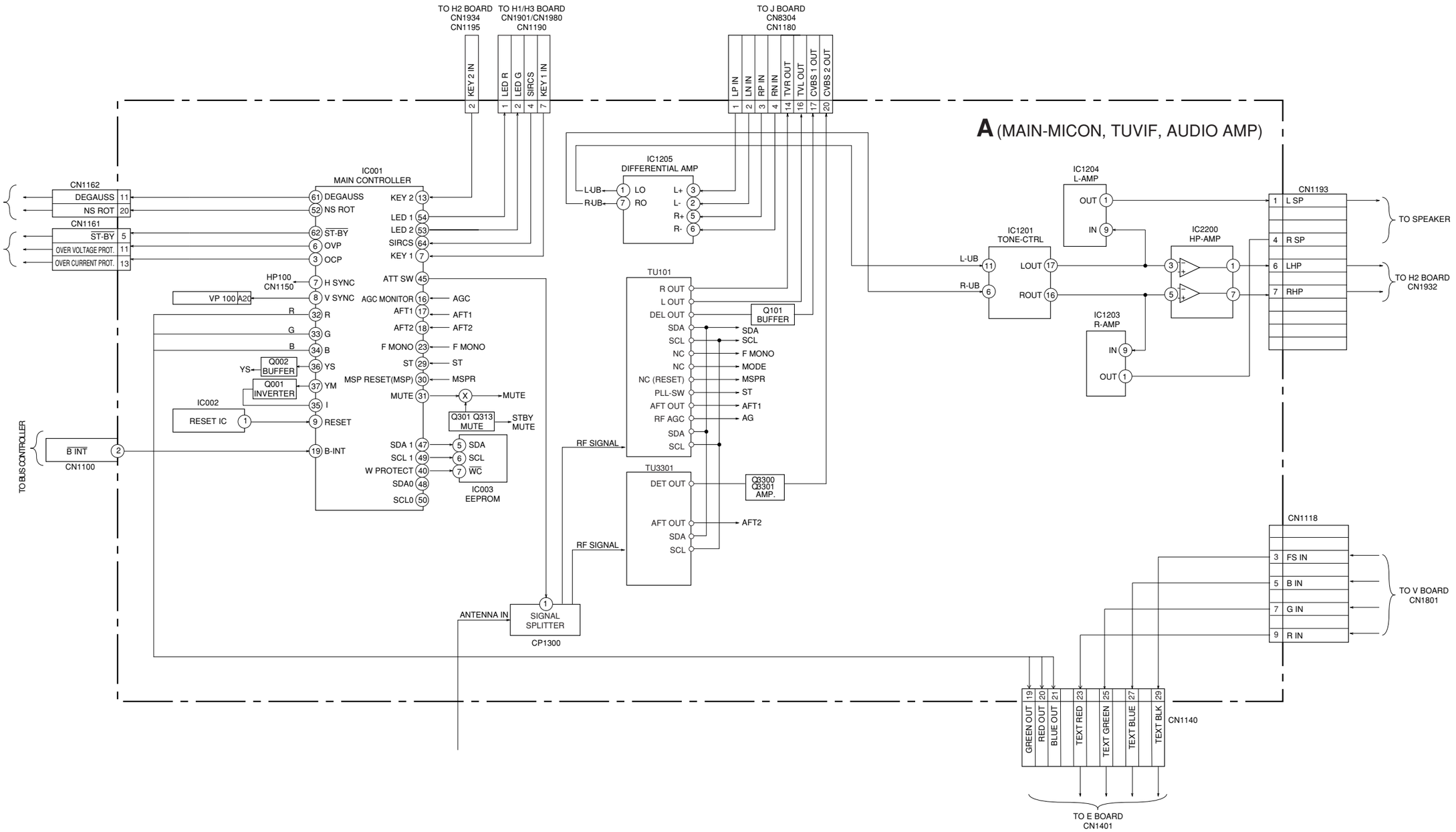


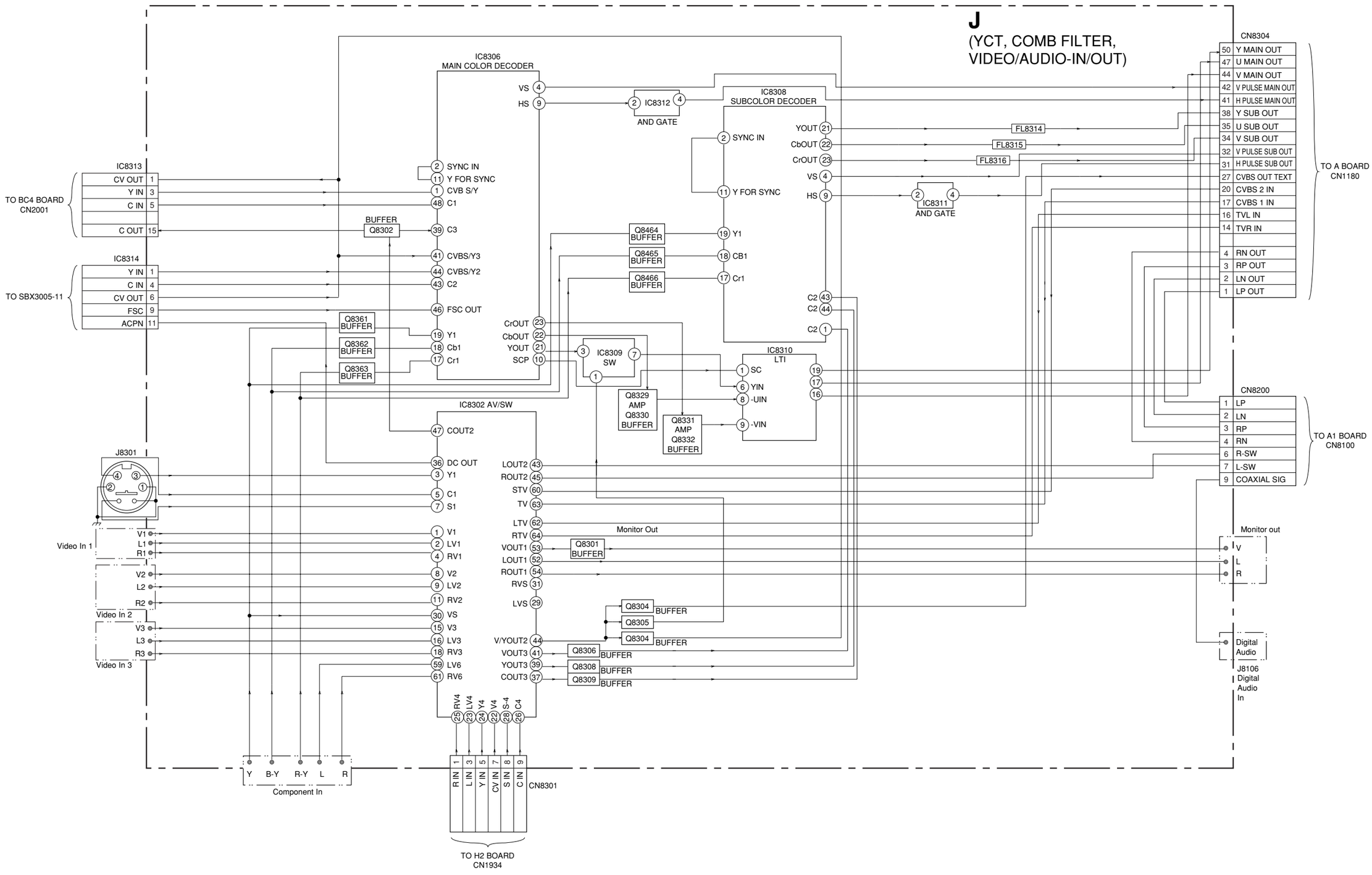
SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM

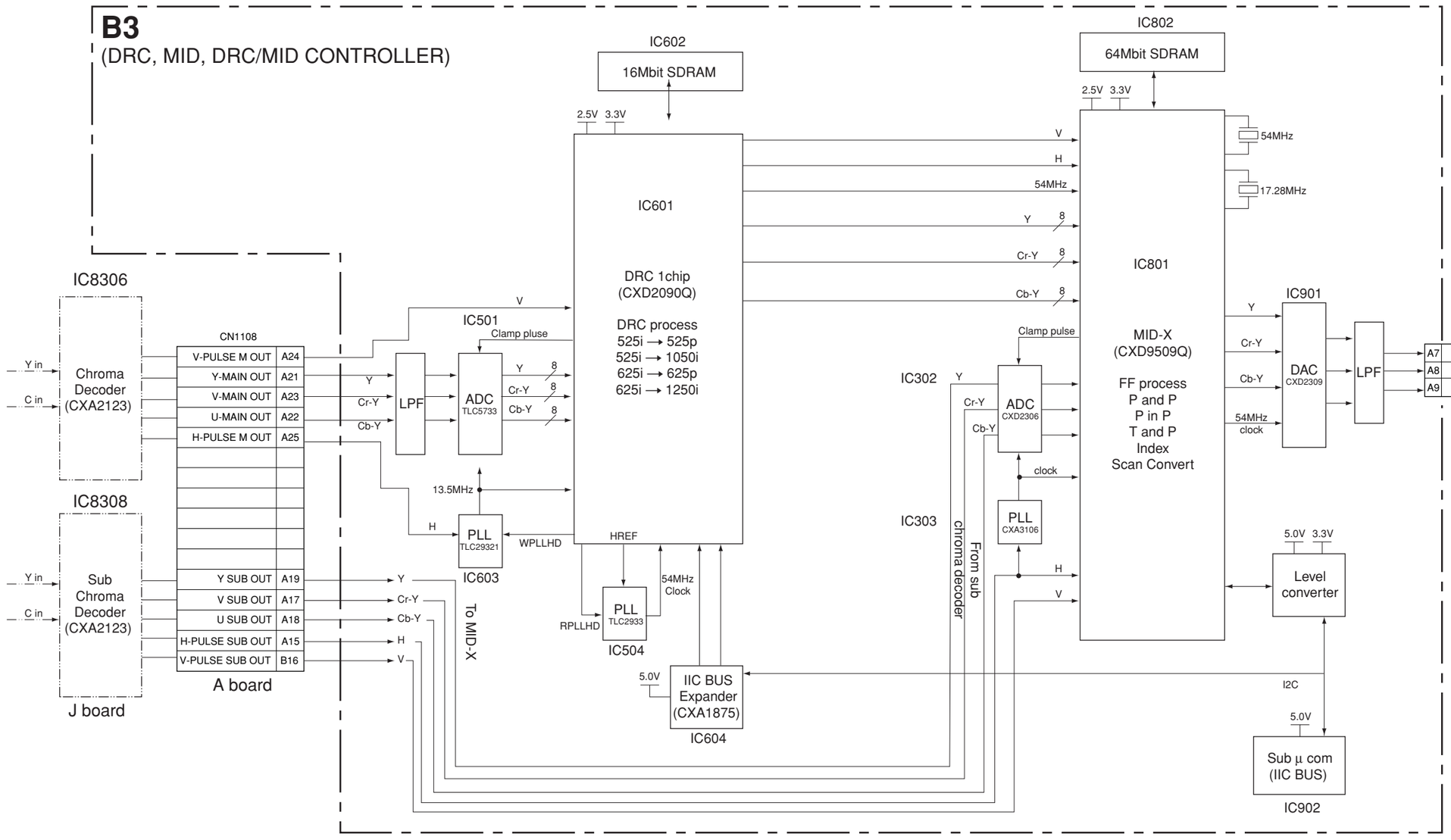


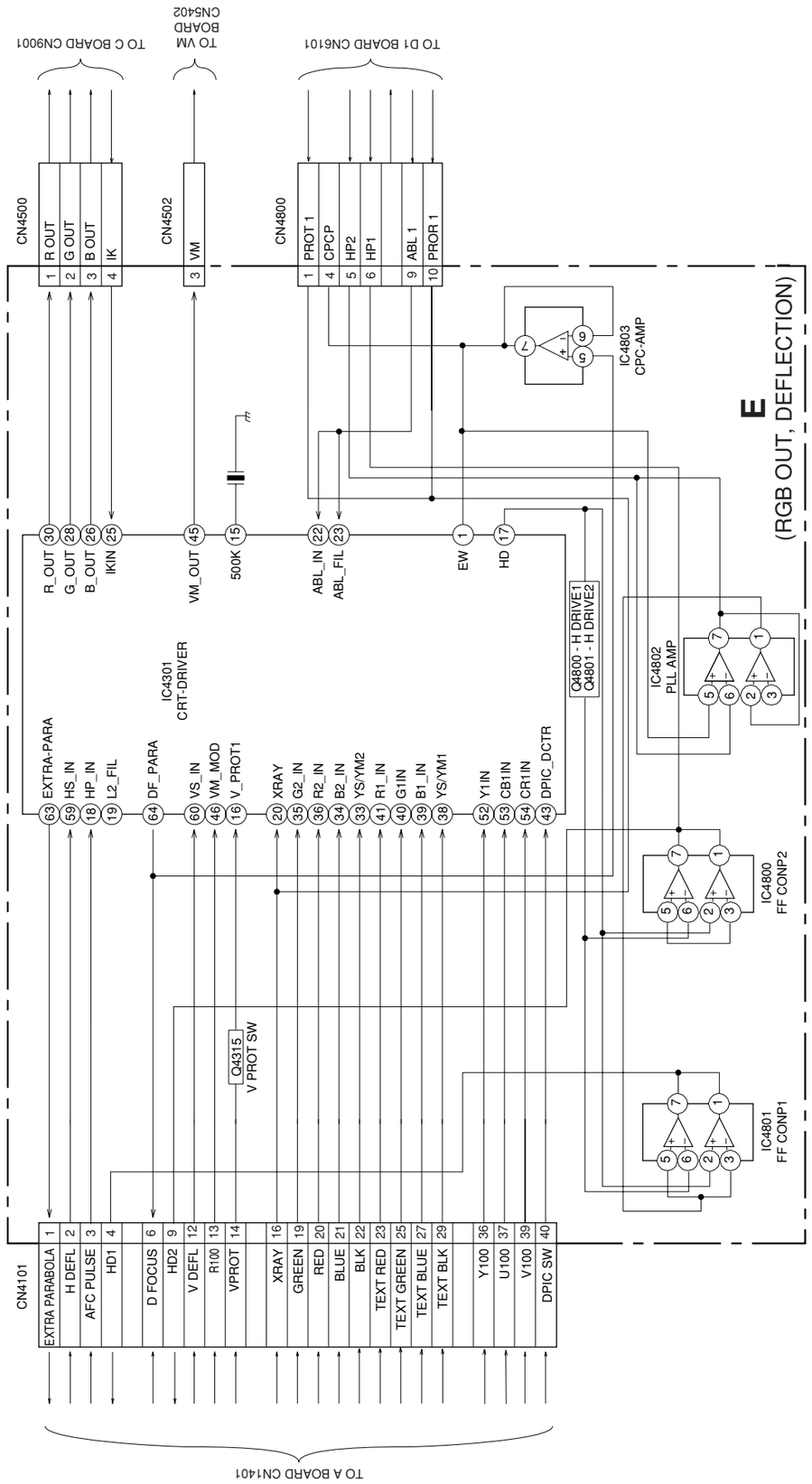

TO VM BOARD
CN6104
5 QP (–)
CN6101
6 HP1
4 CP CNTL
2 REF
TO E BOARD CN4800
CN6103
TO RT COIL
ROT+ 3
ROT- 1
IC6356
N/S. OUT
IC6354
MULTIPLAY
IC6104
DQP-AMP
IC6105
DQP-CONT
Q6107
DQP H-MOJI
IC6353
5V REG
IC6102
DQP-CONT
IC6106
H-SIZE CONT
IC6351
DC CONT.
IC6101
QP-CONT
CN6100
10 DF SW
14 HP1
17 N/S
28 DF DRIVE
29 FOCUS
30 H LIN
34 GND
35 V COMP+
39 V COMP-
37 V SAW-
33 V SAW+
41 VFB2
44 H CENT
46 H-SAW
48 M PIN
49 ABL 1
TO BOARD CN6802
M-PIN
DF SW
DF PH
H-LIN
QP DV
H-TRP
QP PH
QP AC
CP CTR
H-CENT
QP AV
QP DC
IC6108
DAC CONT.
Q6106
CONST. C
Q6128
H-SAW
Q6125
H LIN AMP 1
Q6126
H LIN AMP2
IC6103
M.PIN CONP
IC6202
LPF
IC6201
V SIZE COMP
D1
(DF, DQP DRIVE)


A (MAIN-MICON, TUVIF, AUDIO AMP)
TO H2 BOARD CN1934 CN1195
TO H1/H3 BOARD CN1901/CN1980 CN1190
TO J BOARD CN8304 CN1180
KEY 2 IN
LED R
LED G
SIRCS
KEY 1 IN
LP IN
LN IN
RP IN
RN IN
TVR OUT
TVL OUT
CVBS 1 OUT
CVBS 2 OUT
IC001 MAIN CONTROLLER
CN1162
DEGAUSS
NS ROT
CN1161
ST-BY
OVER VOLTAGE PROT.
OVER CURRENT PROT.
TO D BOARD CN6800
TO D BOARD CN6605
H SYNC
V SYNC
R
G
B
YS
YM
I
RESET
B-INT
HP100 CN1150
VP 100
A20
Q002 BUFFER
Q001 INVERTER
IC002
RESET IC
B INT
CN1100
TO BUS CONTROLLER
KEY 2
LED 1
LED 2
SIRCS
KEY 1
ATT SW
AGC MONITOR
AFT1
AFT2
F MONO
ST
MSP RESET(MSP)
MUTE
Q301 Q313 MUTE
STBY MUTE
SDA 1
SCL 1
W PROTECT
SDA0
SCL0
IC003 EEPROM
IC1205 DIFFERENTIAL AMP
L-UB
R-UB
LO
RO
L+
L-
R+
R-
TU101
R OUT
L OUT
DEL OUT
SDA
SCL
NC
NC
NC (RESET)
PLL-SW
AFT OUT
RF AGC
SDA
SCL
Q101 BUFFER
MODE
MSPR
AG
RF SIGNAL
TU3301
DET OUT
AFT OUT
SDA
SCL
Q3300 Q3301 AMP.
ANTENNA IN
SIGNAL SPLITTER
CP1300
IC1204 L-AMP
IC1201 TONE-CTRL
IC2200 HP-AMP
IC1203 R-AMP
OUT
IN
LOUT
ROUT
CN1193
L SP
R SP
LHP
RHP
TO SPEAKER
TO H2 BOARD CN1932
CN1118
FS IN
B IN
G IN
R IN
TO V BOARD CN1801
GREEN OUT
RED OUT
BLUE OUT
TEXT RED
TEXT GREEN
TEXT BLUE
TEXT BLK
CN1140
TO E BOARD CN1401


J
(YCT, COMB FILTER,
VIDEO/AUDIO-IN/OUT)
IC8306
MAIN COLOR DECODER
IC8308
SUBCOLOR DECODER
IC8312
AND GATE
IC8311
AND GATE
IC8313
IC8314
TO BC4 BOARD
CN2001
TO SBX3005-11
BUFFER
Q8302
Q8361
Q8362
Q8363
Q8464
Q8465
Q8466
IC8309
SW
IC8310
LTI
Q8329
AMP
Q8330
BUFFER
Q8331
AMP
Q8332
BUFFER
IC8302 AV/SW
J8301
Video In 1
Video In 2
Video In 3
Component In
Monitor Out
Q8301
Q8304
Q8305
Q8306
Q8308
Q8309
CN8304
TO A BOARD
CN1180
CN8200
TO A1 BOARD
CN8100
Monitor out
Digital
Audio
J8106
Digital
Audio
In
CN8301
TO H2 BOARD
CN1934

KV-ES38N90
RM-958





7-2. SCHEMATIC DIAGRAM

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance which does not have rating electrical power is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)

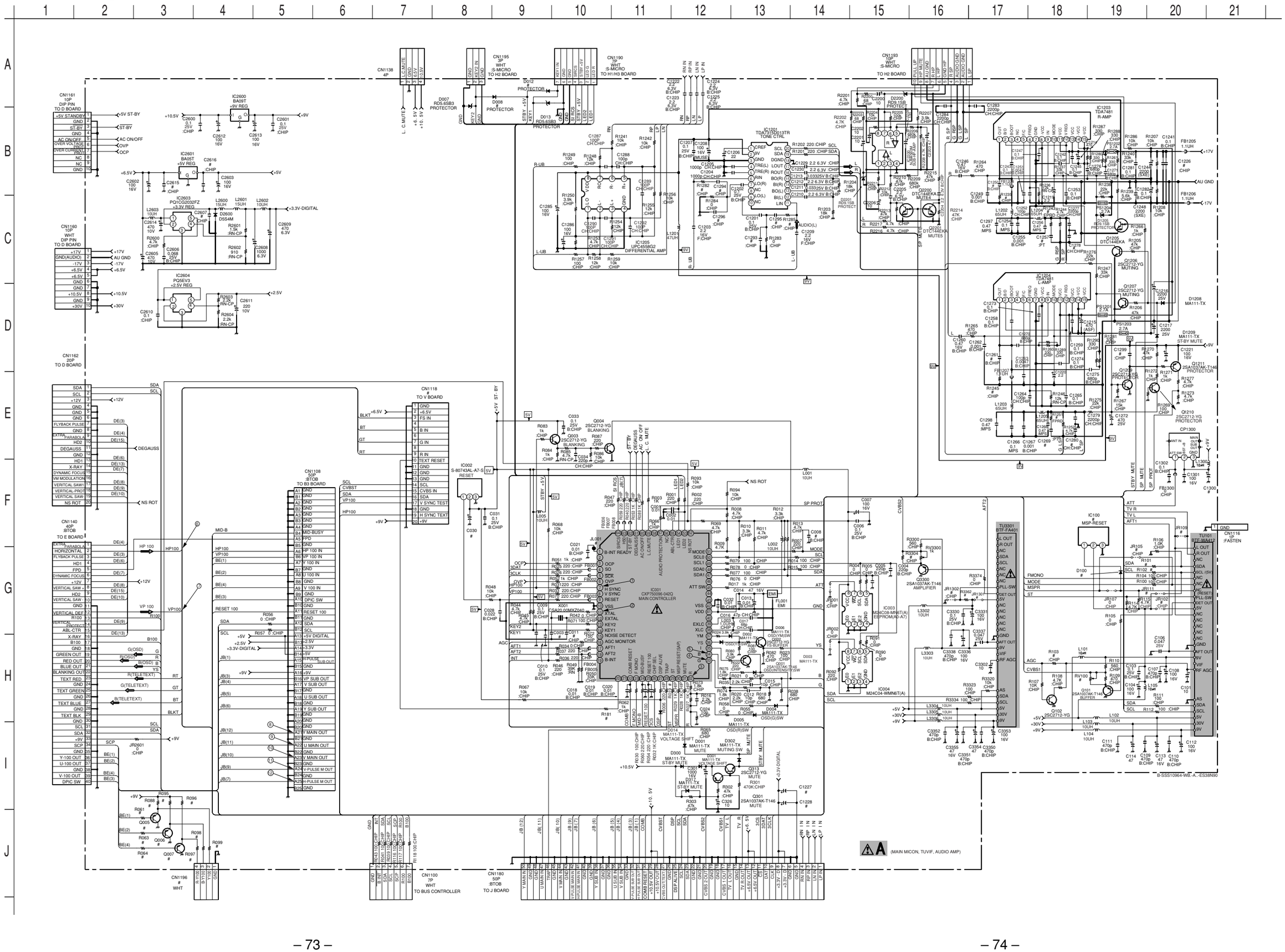
- : nonflammable resistor.
- △ : internal component.
- : panel designation or adjustment for rrepair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Readings are taken with a color-bar signal input.**
  no mark : Common
  underline : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  << >> : NTSC 4.43
- **Readings are taken with a 10 MΩ digital multimeter.**
- **Voltage are dc with respect to ground unless otherwise noted.**
- **Voltage variations may be noted due to normal production tolerances.**
- **All voltage are in Volt.**
- ✻ **: Cannot be measured.**
- **Circled numbers are waveform references.**
- **: B +bus.**
- **: B –bus.**
- ⇨ **: signal path.**

Reference information

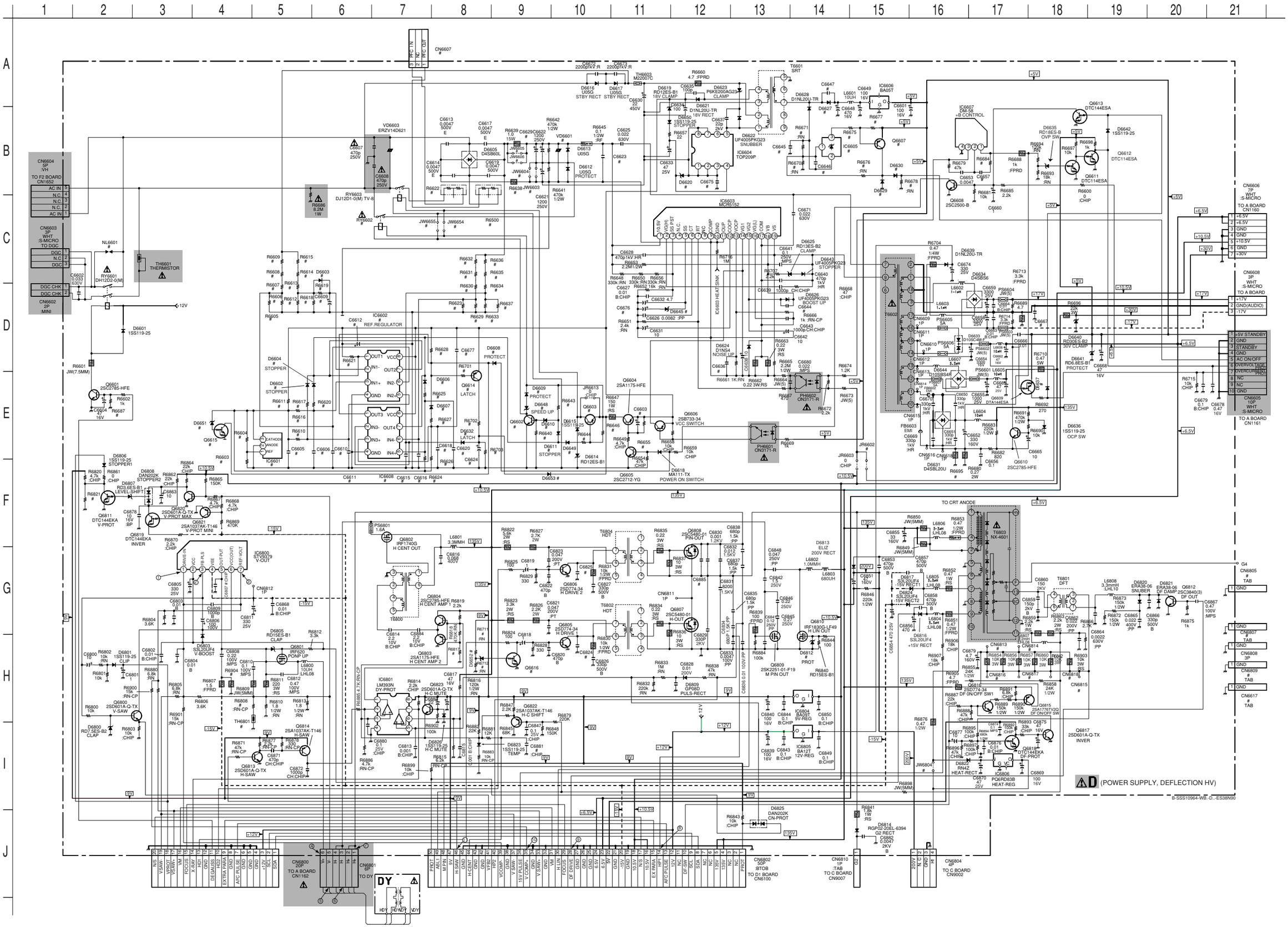
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

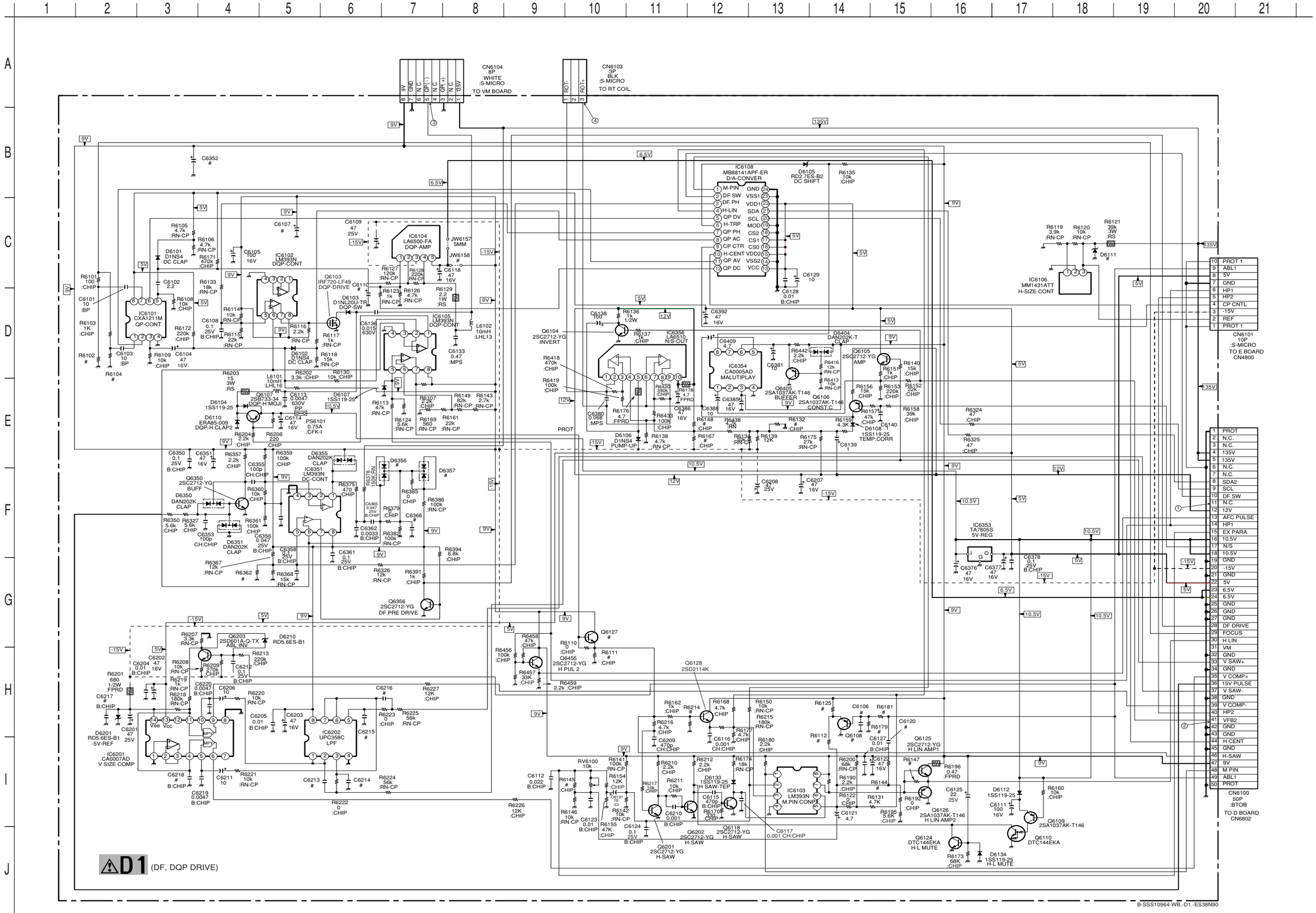
(1) Schematic Diagram of A Board


CN1161 10P DIP PIN TO D BOARD
CN1160 10P WHT DIP PIN TO D BOARD
CN1162 20P TO D BOARD
CN1138 4P
CN1195 5P WHT -S-MICRO TO H2 BOARD
CN1190 6P WHT -S-MICRO TO H1/H3 BOARD
CN1193 10P WHT -S-MICRO TO H2 BOARD
CN1118 # TO V BOARD
CN1108 50P :BTOB TO B3 BOARD
CN1140 40P :BTOB TO E BOARD
CN1196 # WHT
CN1100 7P WHT TO BUS CONTROLLER
CN1180 50P :BTOB TO J BOARD
IC1201 TDA7313D013TR TONE CTRL
IC1205 UPC4558G2 DIFFERENTIAL AMP
IC1001 CXKP750096-042Q MAIN CONTROLLER
IC1203 TDA7481 R-AMP
IC1204 TDA7481 L-AMP
IC2600 BA09T +9V REG
IC2601 BA05T +5V REG
IC2603 PQ1CG2032FZ +3.3V REG
IC2604 PQ5EV3 +2.5V REG
IC002 S-80743AL-A7-S RESET
IC003 M24C08-MN6T(A) EEPROM(A0-A7)
IC004 M24C04-WMN6T(A)
IC100 MSP-RESET
TU3301 BTF-FA401
TU101 BTF-WA412
D200 RD9.1SB PROTECT
D201 RD9.1SB PROTECT
D007 RD5.6SB3 PROTECTOR
D008 # PROTECTOR
D012 PROTECTOR
D013 RD5.6SB3 PROTECTOR
Q200 DTC144EKA MUTE4
Q201 DTC144EKA MUTES
Q3300 2SA1037AK-T146 AMPLIFIER
Q101 2SA1037AK-T146 BUFFER
Q301 2SA1037AK-T146 MUTE
Q004 2SC2712-YG BLANKING
Q003 2SC2712-YG BLANKING
Q1207 2SC2712-YG MUTING
Q1211 2SC2712-YG PROTECTOR
Q313 2SC2712-YG MUTE
Q102 2SC2712-YG
D1205 RD9.1SB PROTECTOR
D1206 RD9.1SB PROTECTOR
D1208 MA111-TX
D1209 MA111-TX ST-BY MUTE
D1007 MA111-TX OSD/YM/SW
D1008 MA111-TX OSD/INTENSITY/SW
D1009 MA111-TX OSD/G(G)SW
D1010 MA111-TX OSD/R(SW)
D1011 MA111-TX VOLTAGE SHIFT
D1012 MA111-TX ST-BY MUTE
D1013 MA111-TX VOLTAGE SHIFT
D1014 MA111-TX VOLTAGE SHIFT
D1015 MA111-TX MUTE
D1016 MA111-TX MUTING SW
D1017 MA111-TX ST-BY MUTE
D001 MA111-TX MUTE
D002 MA111-TX OSD/YM/SW
D003 MA111-TX
D004 MA111-TX
D005 MA111-TX OSD/R(SW)
D006 MA111-TX OSD/INTENSITY/SW
D1201 RD9.1SB PROTECT
D2200 RD9.1SB PROTECT
D2201 RD9.1SB PROTECT
Qf210 2SC2712-YG PROTECTOR
Q1210 2SA1037AK-T146 PROTECTOR
Q1211 2SA1037AK-T146 PROTECTOR
Q1212 2SC2712-YG PROTECTOR
Q1213 2SC2712-YG PROTECTOR
Q1214 2SC2712-YG PROTECTOR
Q1215 2SC2712-YG PROTECTOR
Q1216 2SC2712-YG PROTECTOR
Q1217 2SC2712-YG PROTECTOR
Q1218 2SC2712-YG PROTECTOR
Q1219 2SC2712-YG PROTECTOR
Q1220 2SC2712-YG PROTECTOR
Q1221 2SA1037AK-T146 PROTECTOR
Q1222 2SC2712-YG PROTECTOR
Q1223 2SC2712-YG PROTECTOR
Q1224 2SC2712-YG PROTECTOR
Q1225 2SC2712-YG PROTECTOR
Q1226 2SC2712-YG PROTECTOR
Q1227 #
Q1228 #
Q2200 DTC144EKA MUTE4
Q2201 DTC144EKA MUTES
Q2202 2SC2712-YG MUTING
Q2203 2SC2712-YG MUTING
Q2204 2SC2712-YG MUTING
Q2205 2SC2712-YG MUTING
Q2206 2SC2712-YG MUTING
Q2207 2SC2712-YG MUTING
Q2208 2SC2712-YG MUTING
Q2209 2SC2712-YG MUTING
Q2210 2SC2712-YG MUTING
Q2211 2SC2712-YG MUTING
Q2212 2SC2712-YG MUTING
Q2213 2SC2712-YG MUTING
Q2214 2SC2712-YG MUTING

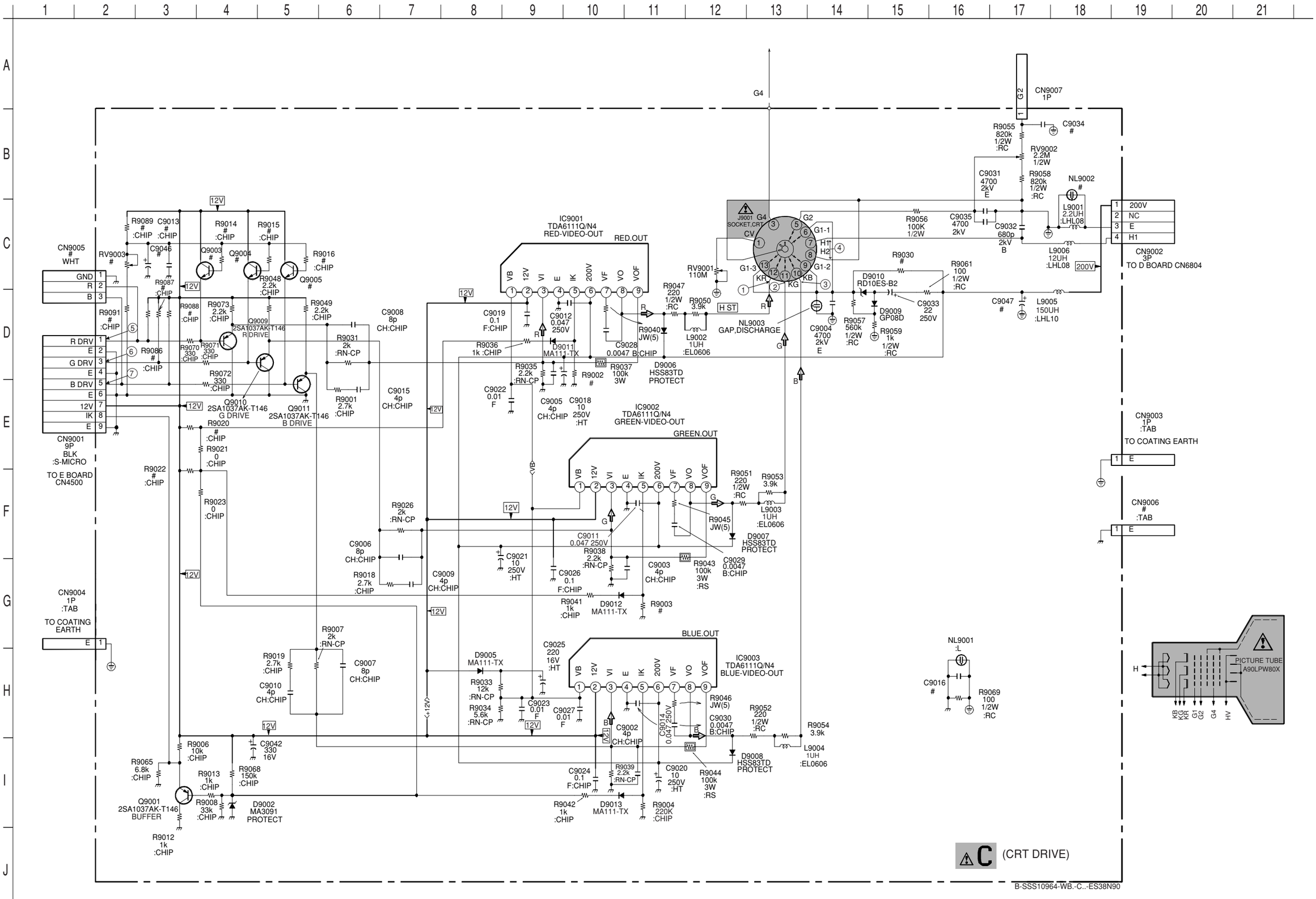
(2) Schematic Diagram of D Board



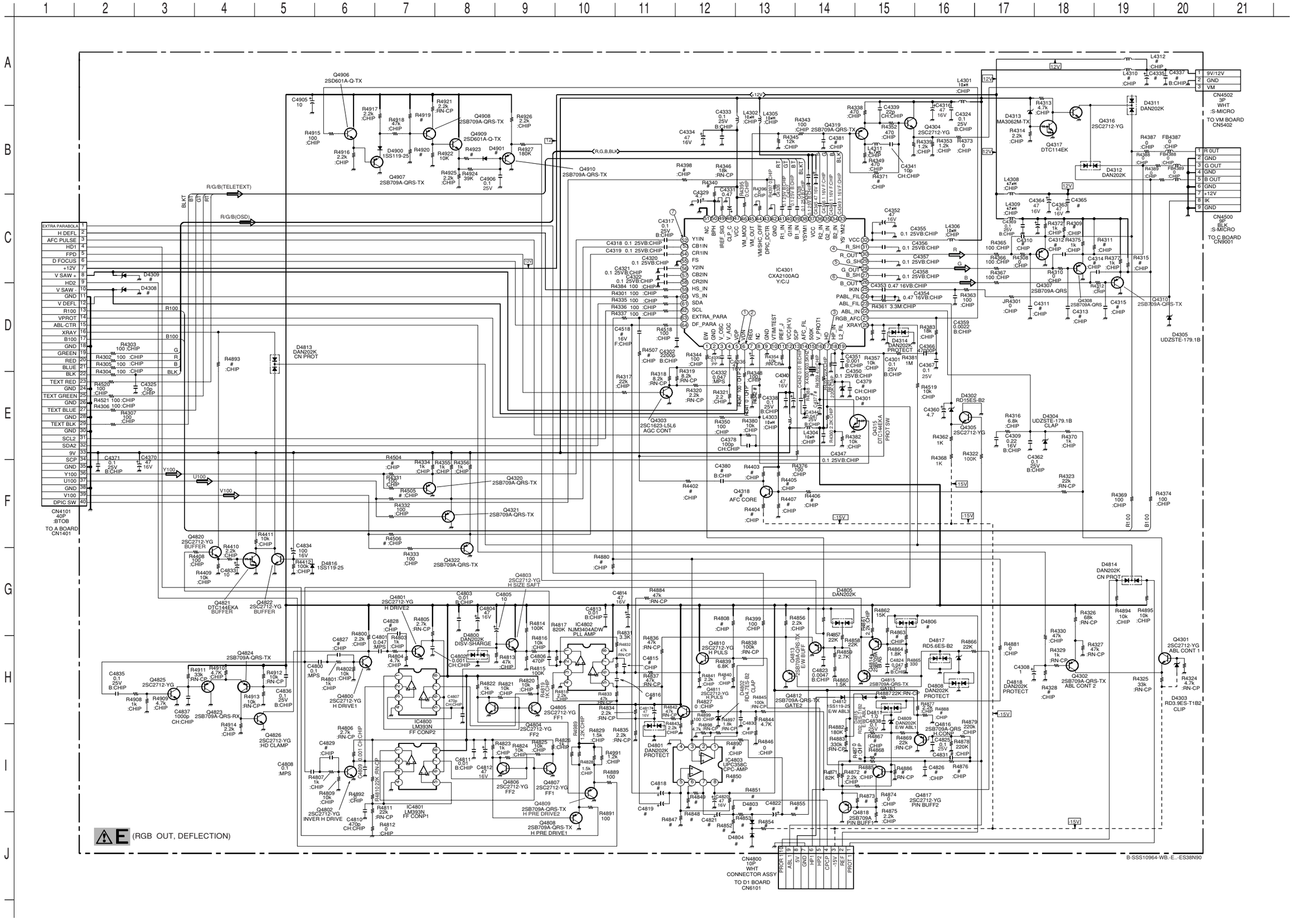
(3) Schematic Diagram of D1 Board



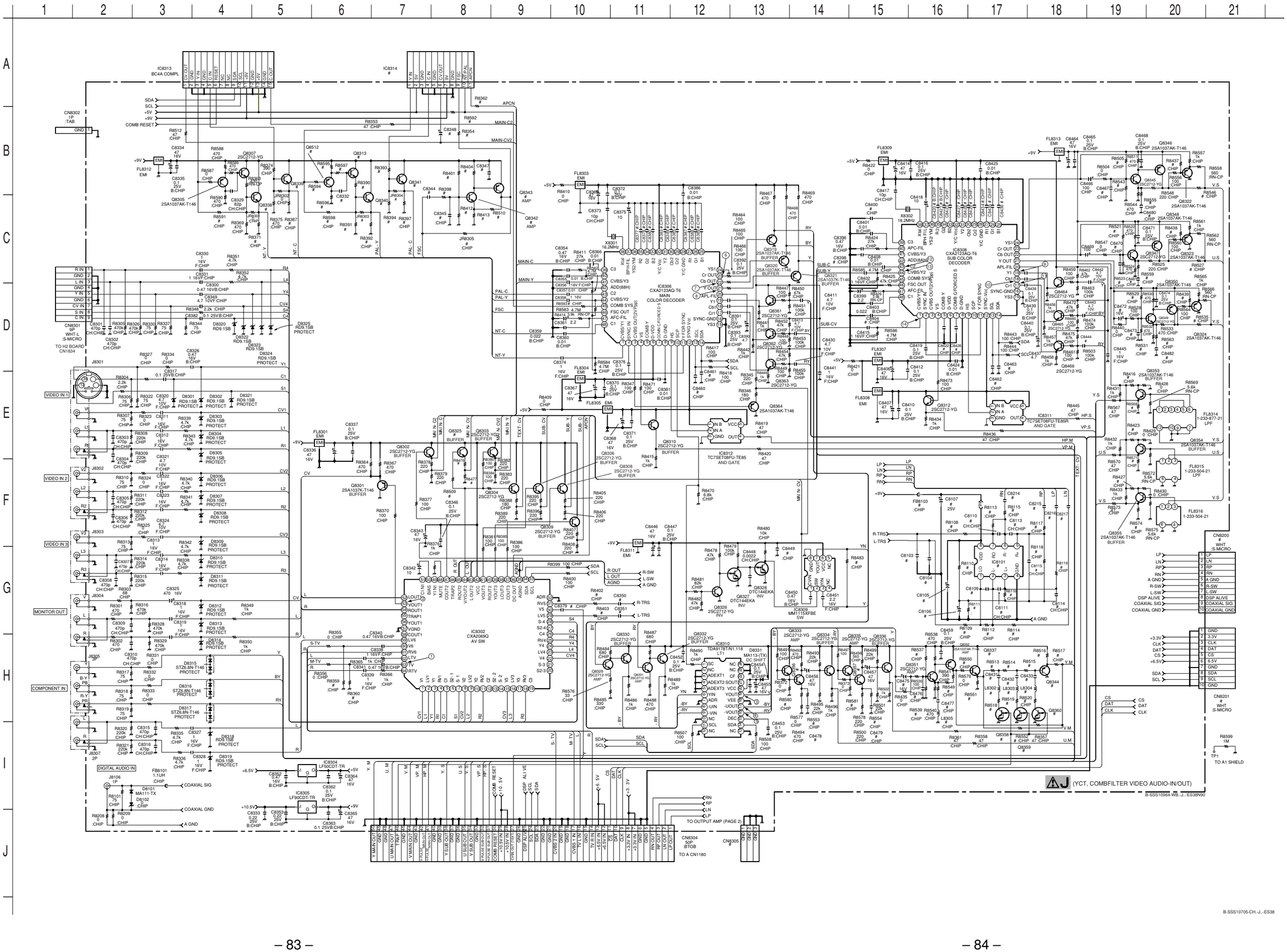
(4) Schematic Diagram of C Board



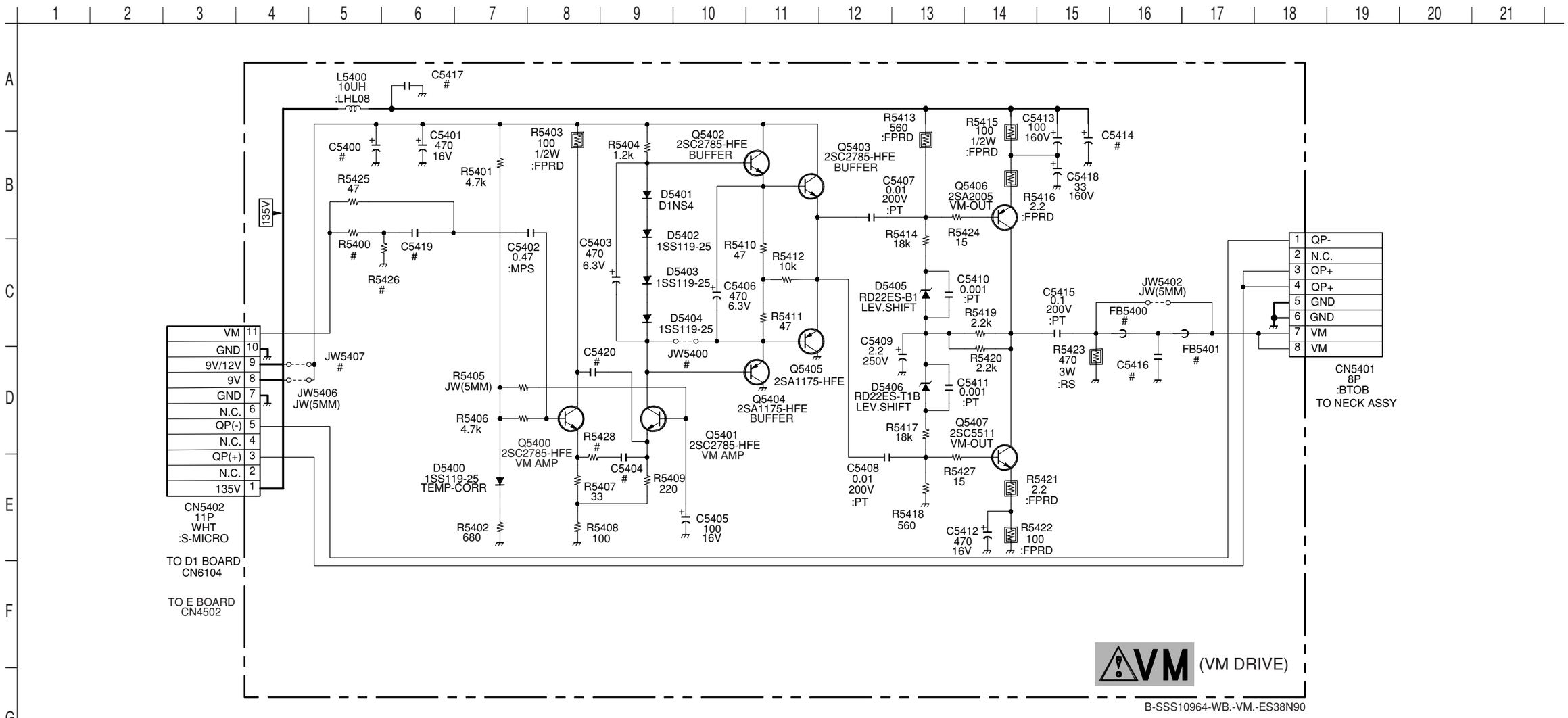
(5) Schematic Diagram of E Board

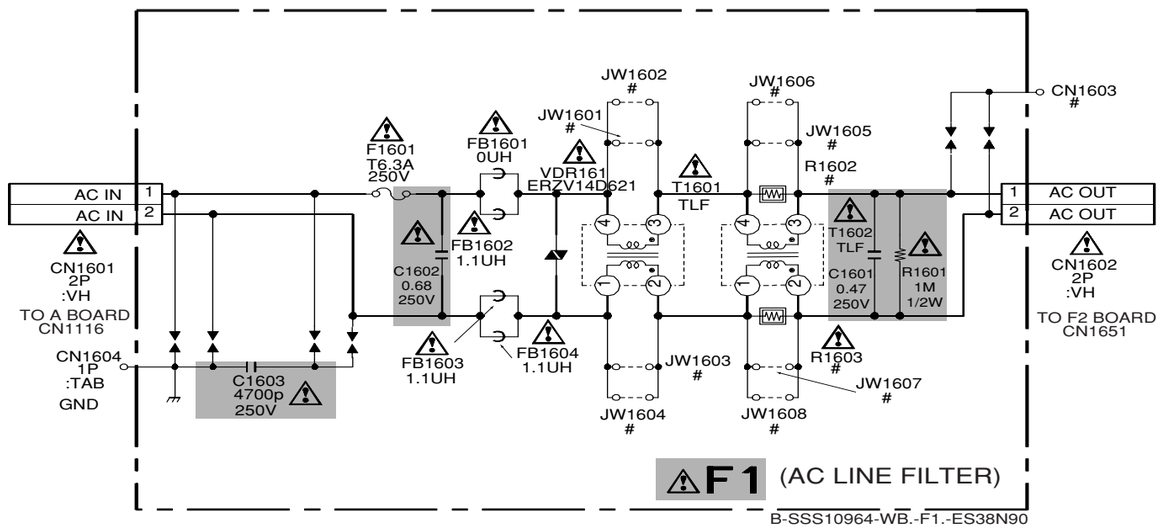


(6) Schematic Diagram of J Board

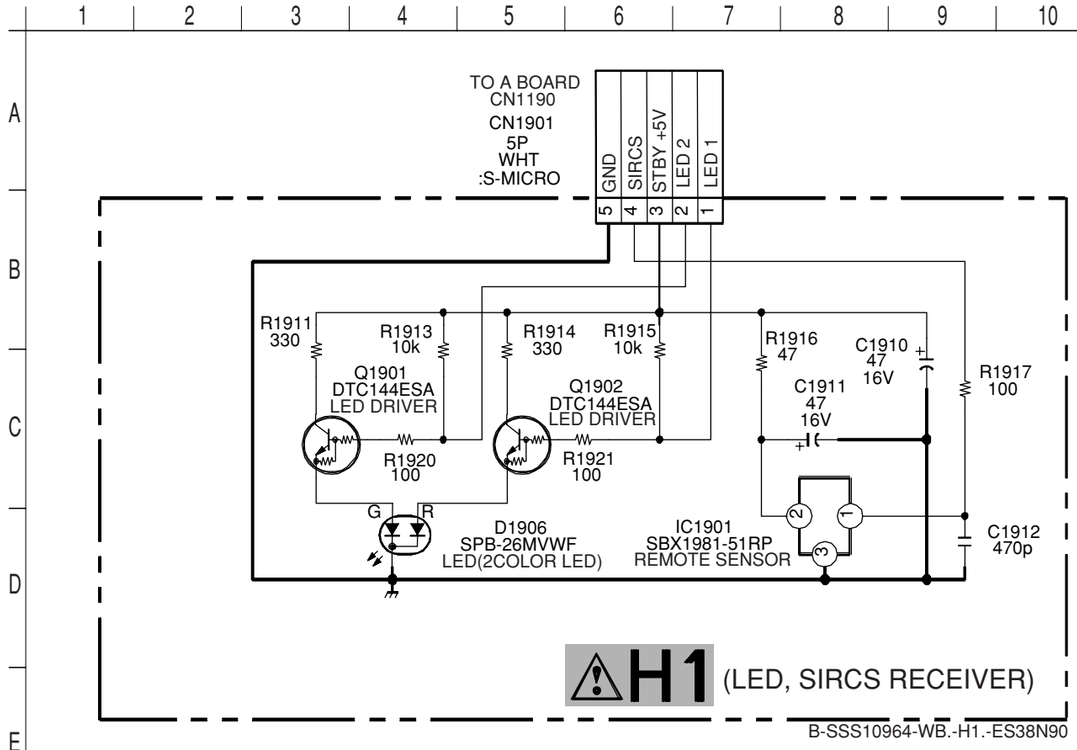


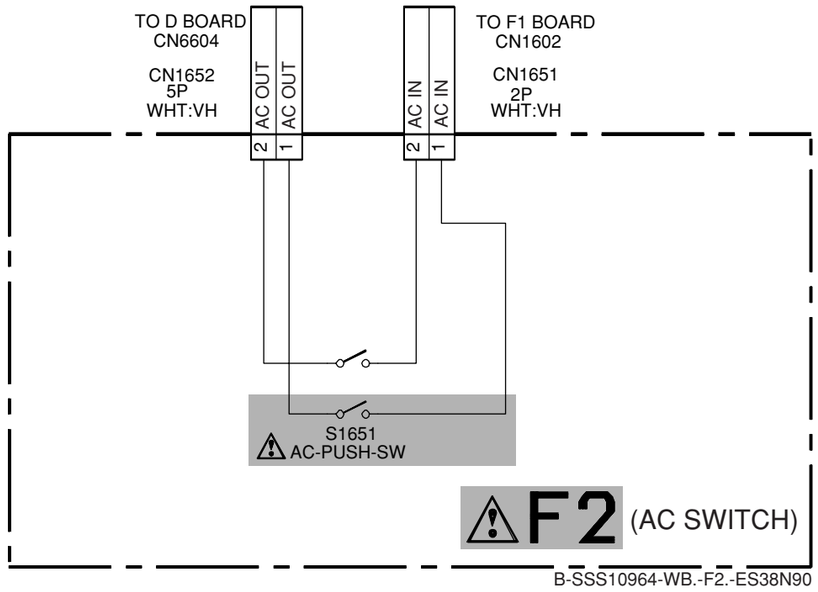
(7) Schematic Diagrams of VM and F1 Boards

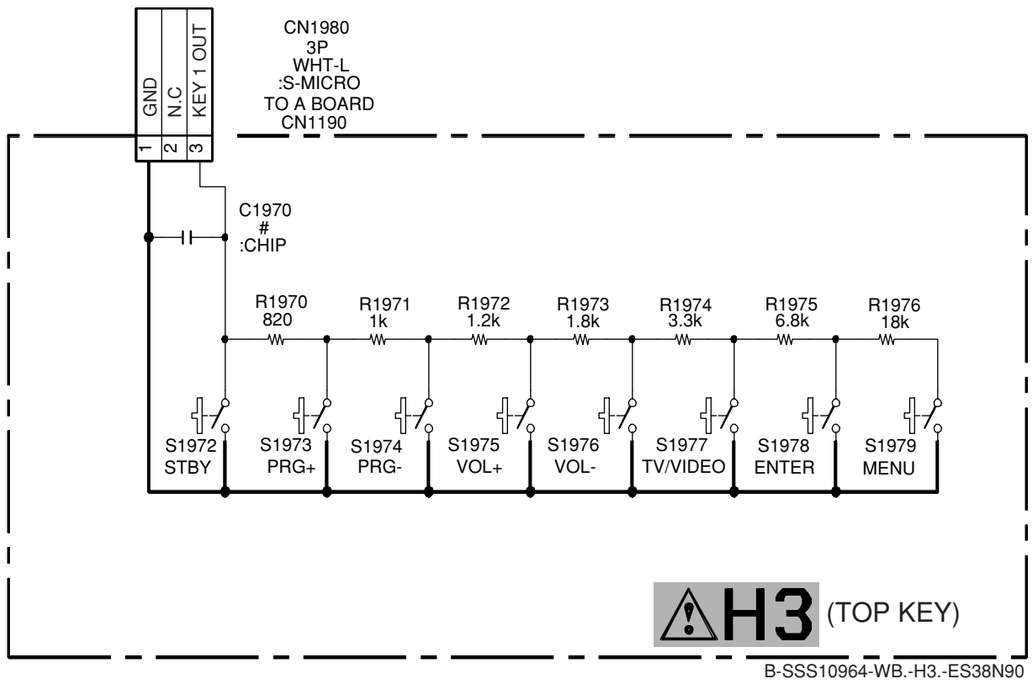


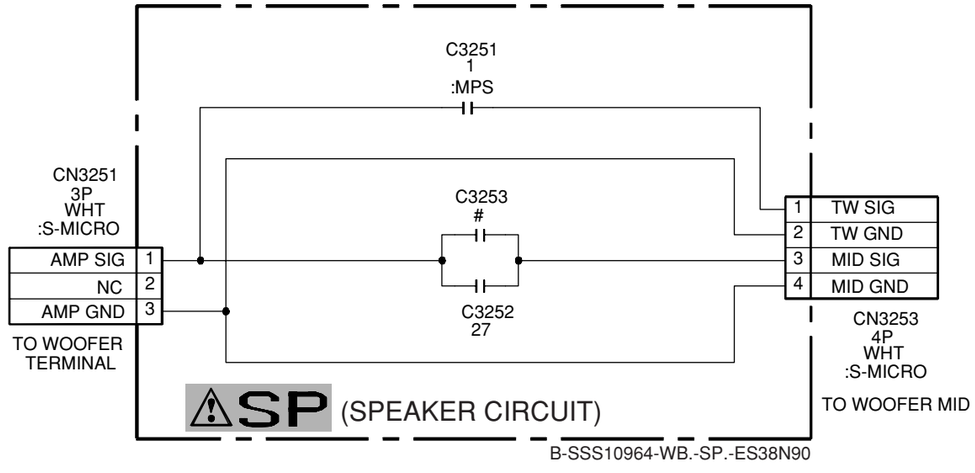


(8) Schematic Diagrams of H1, H3, F2 and SP Boards

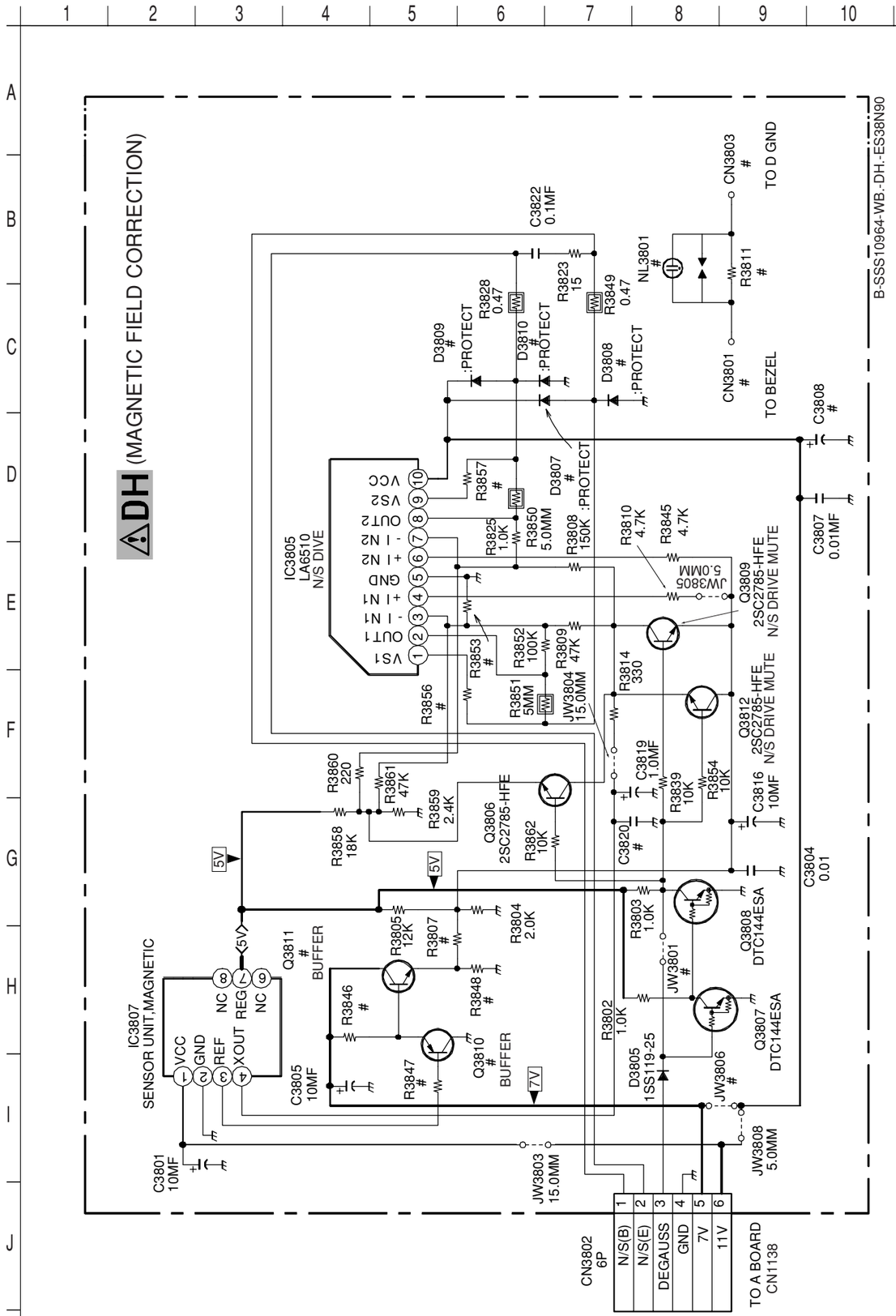


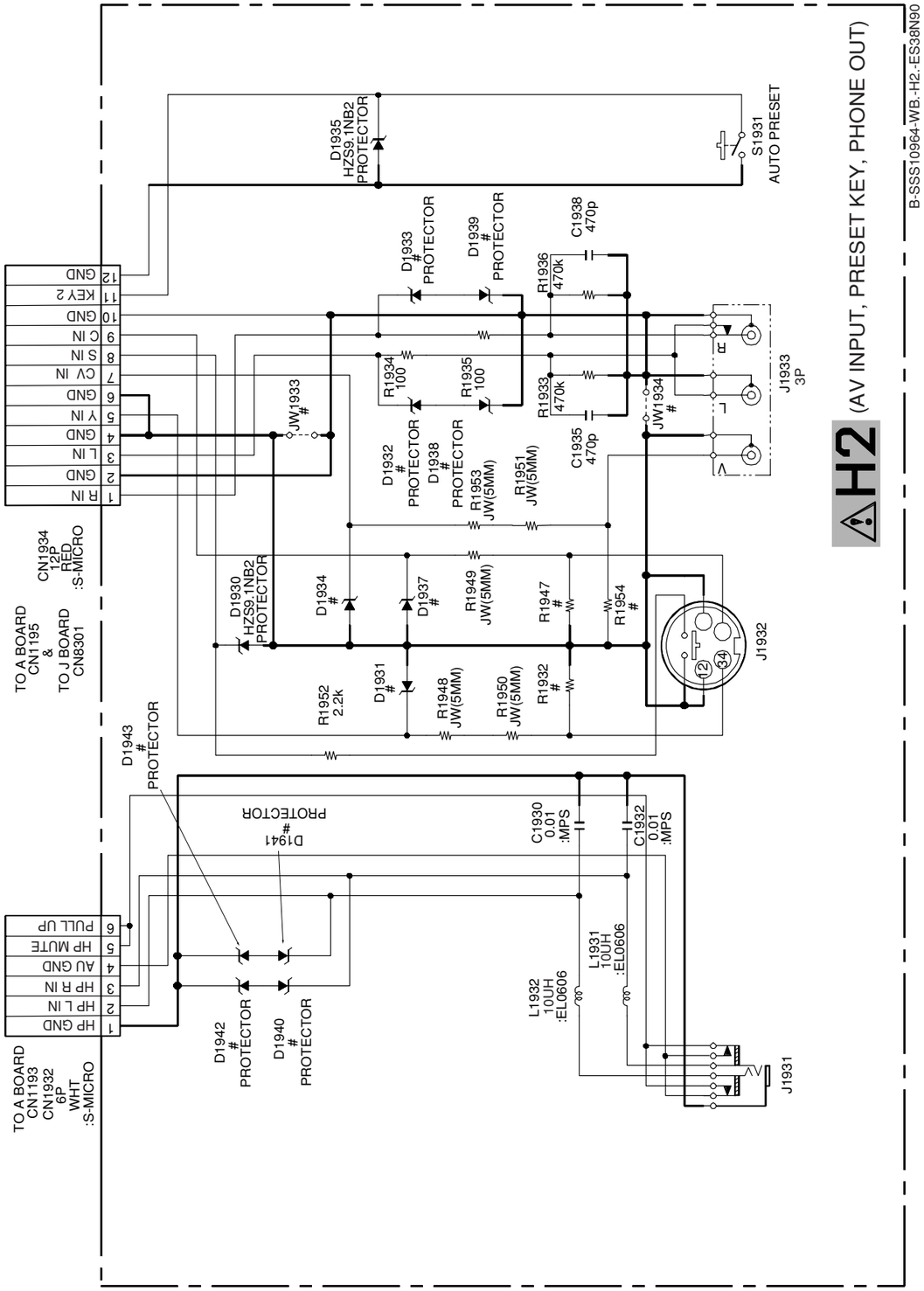




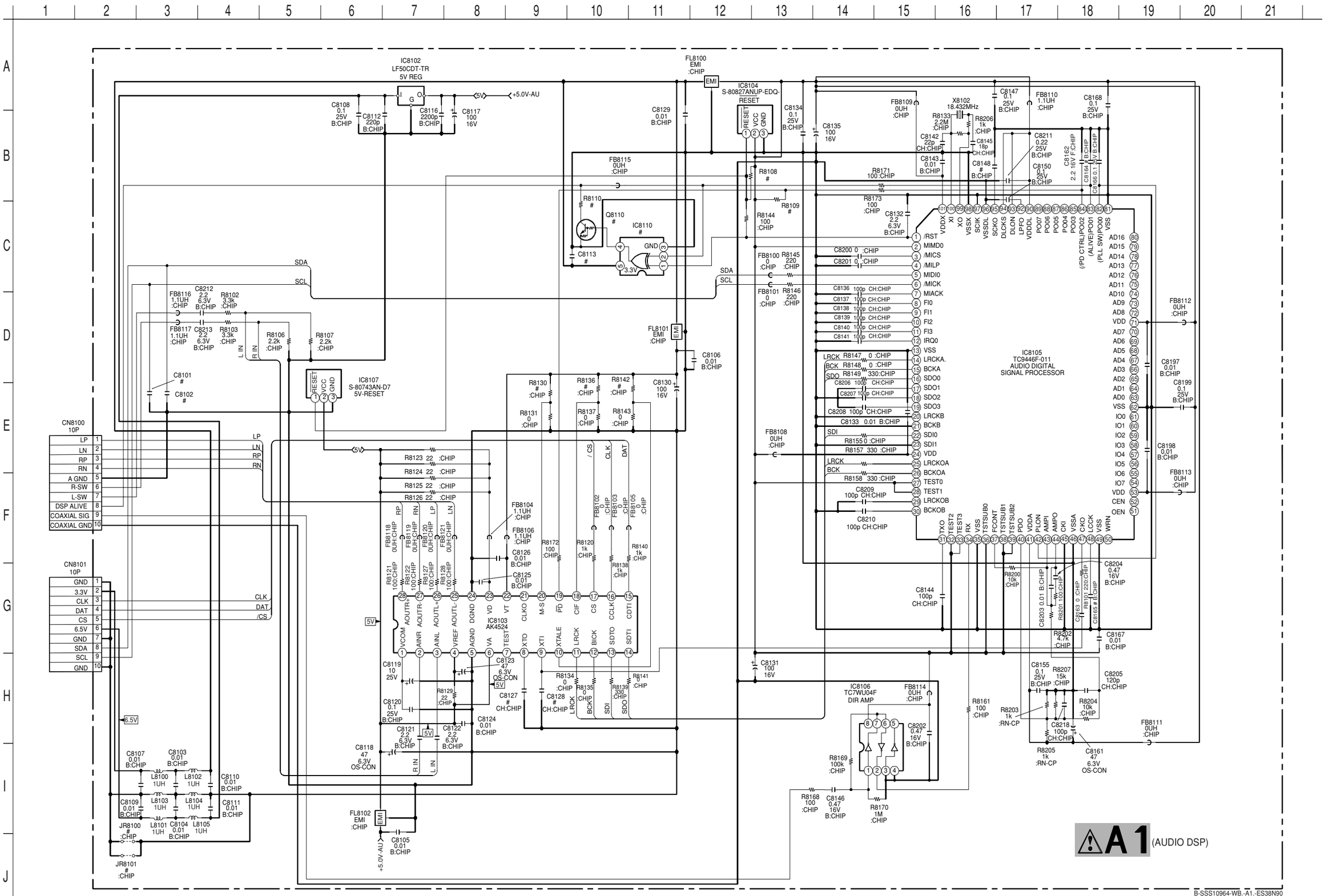


(9) Schematic Diagrams of DH and H2 Boards

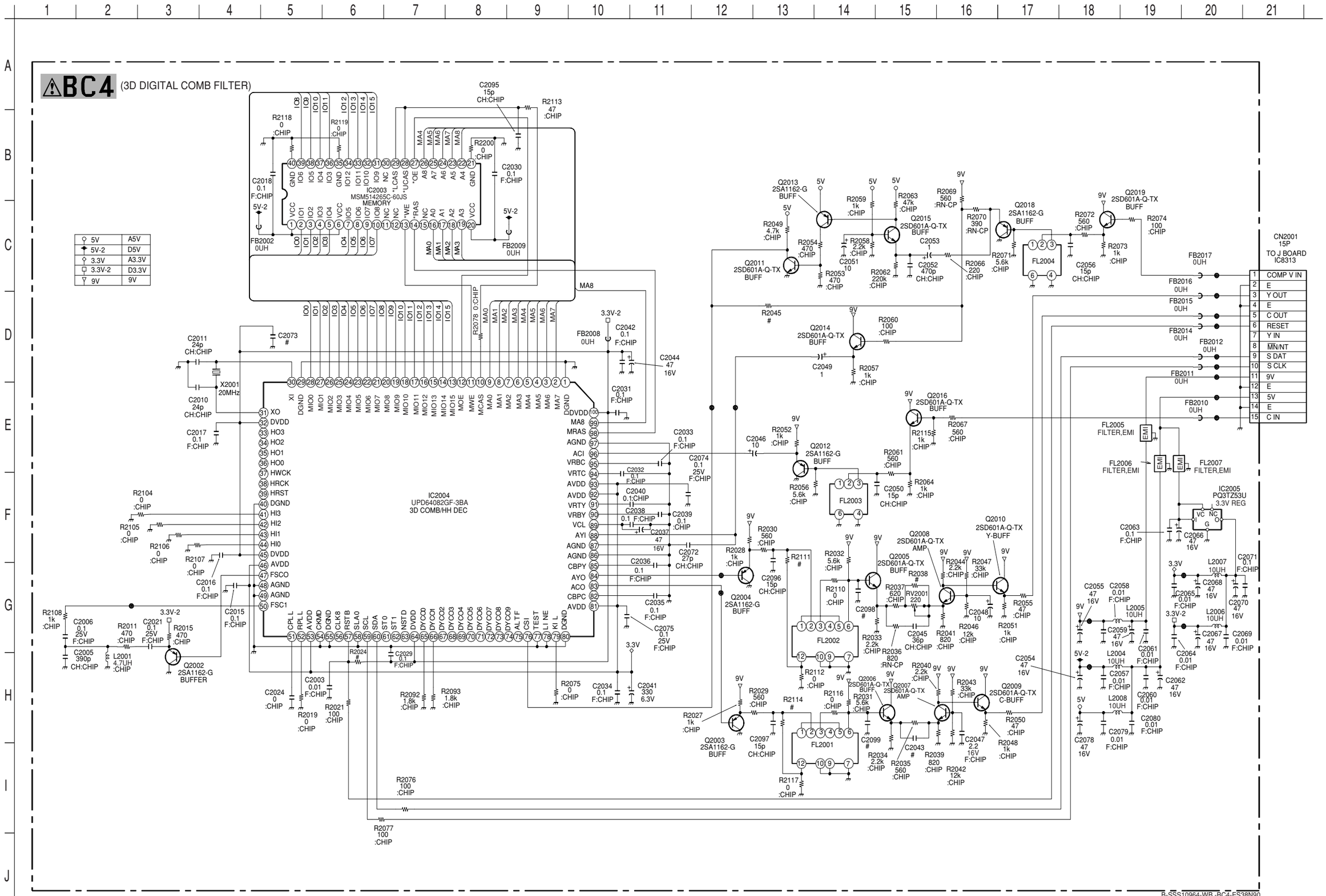




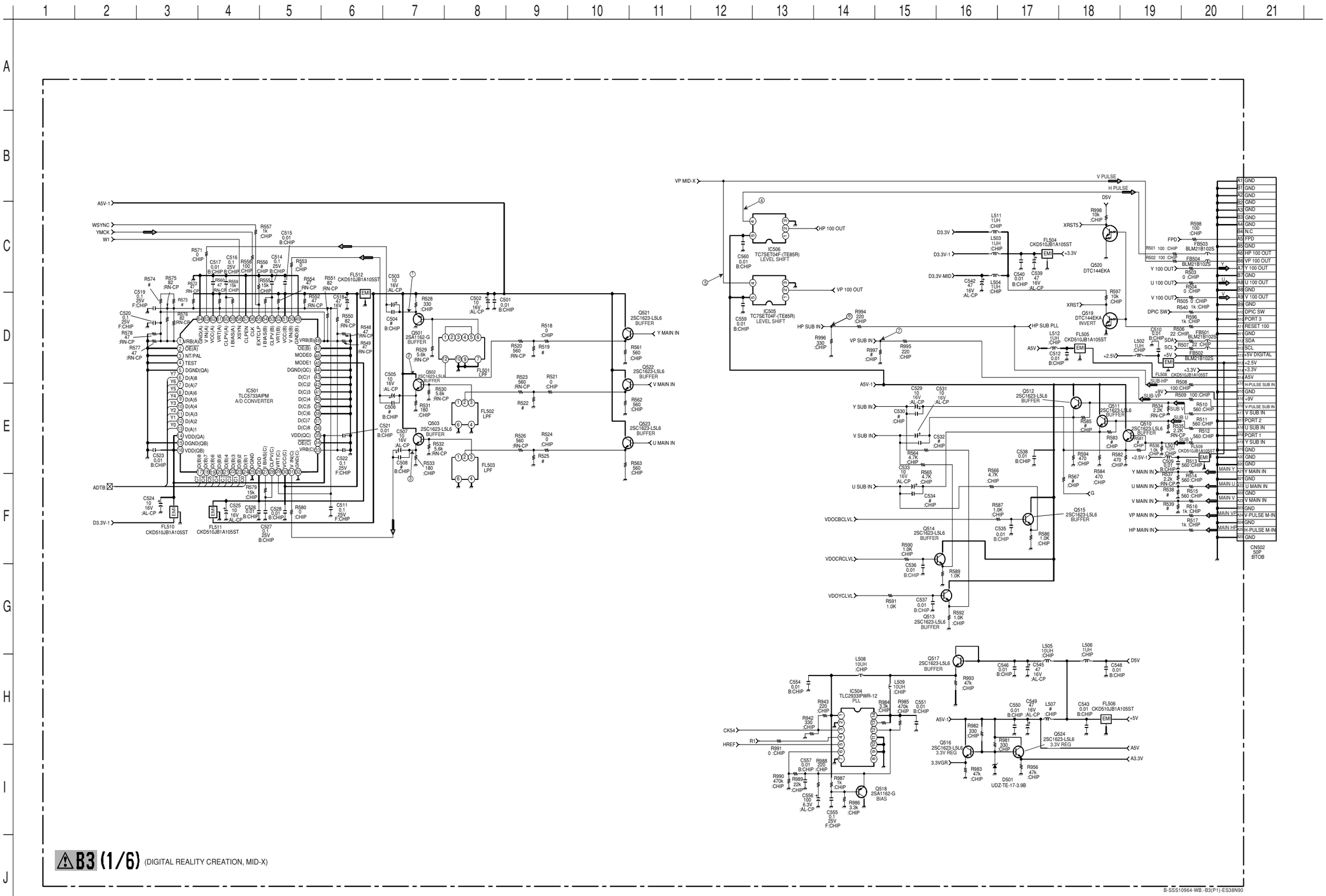
(10) Schematic Diagram of A1 Board



(11) Schematic Diagram of BC4 Board

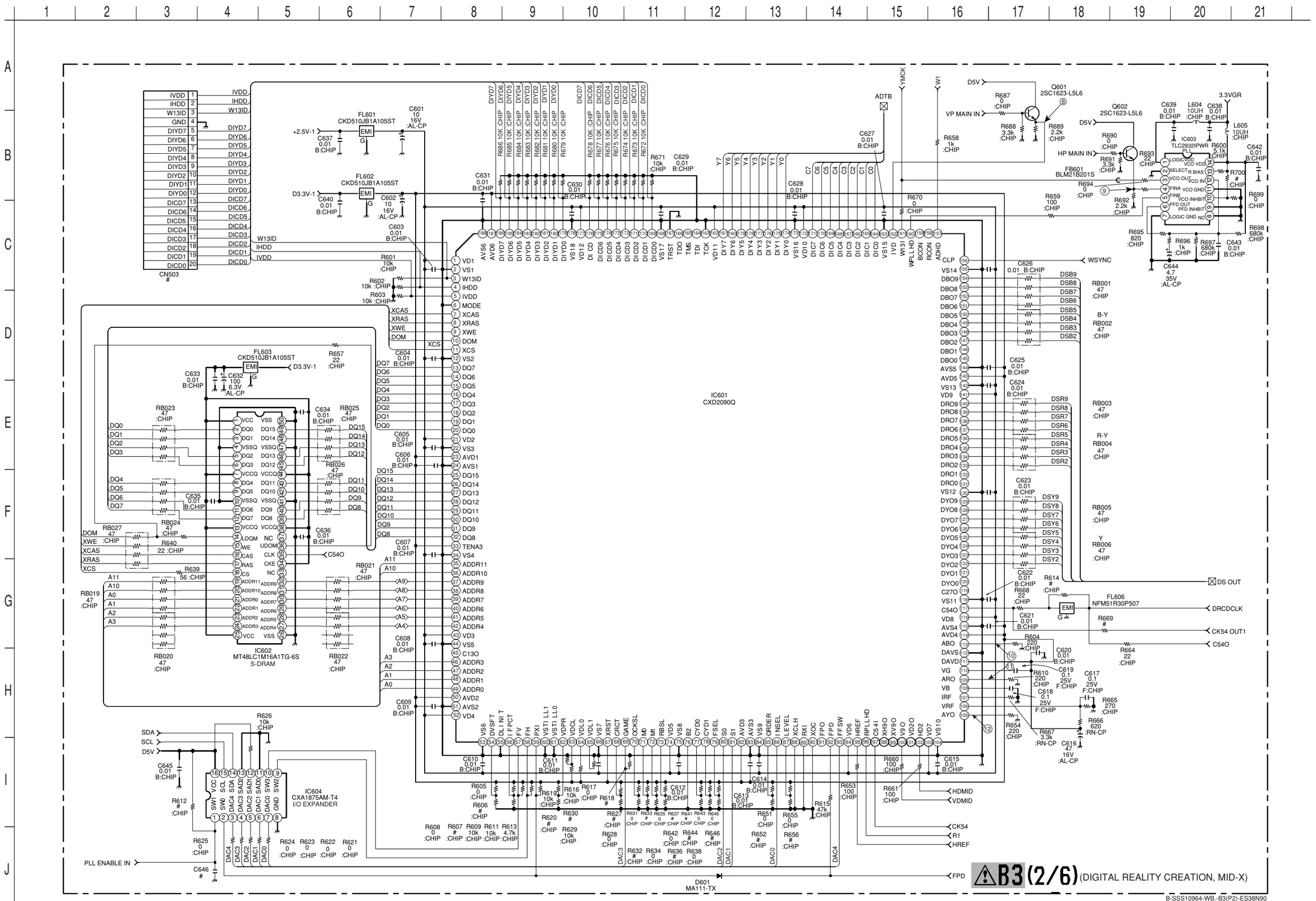


(12) Schematic Diagram of B3 Board

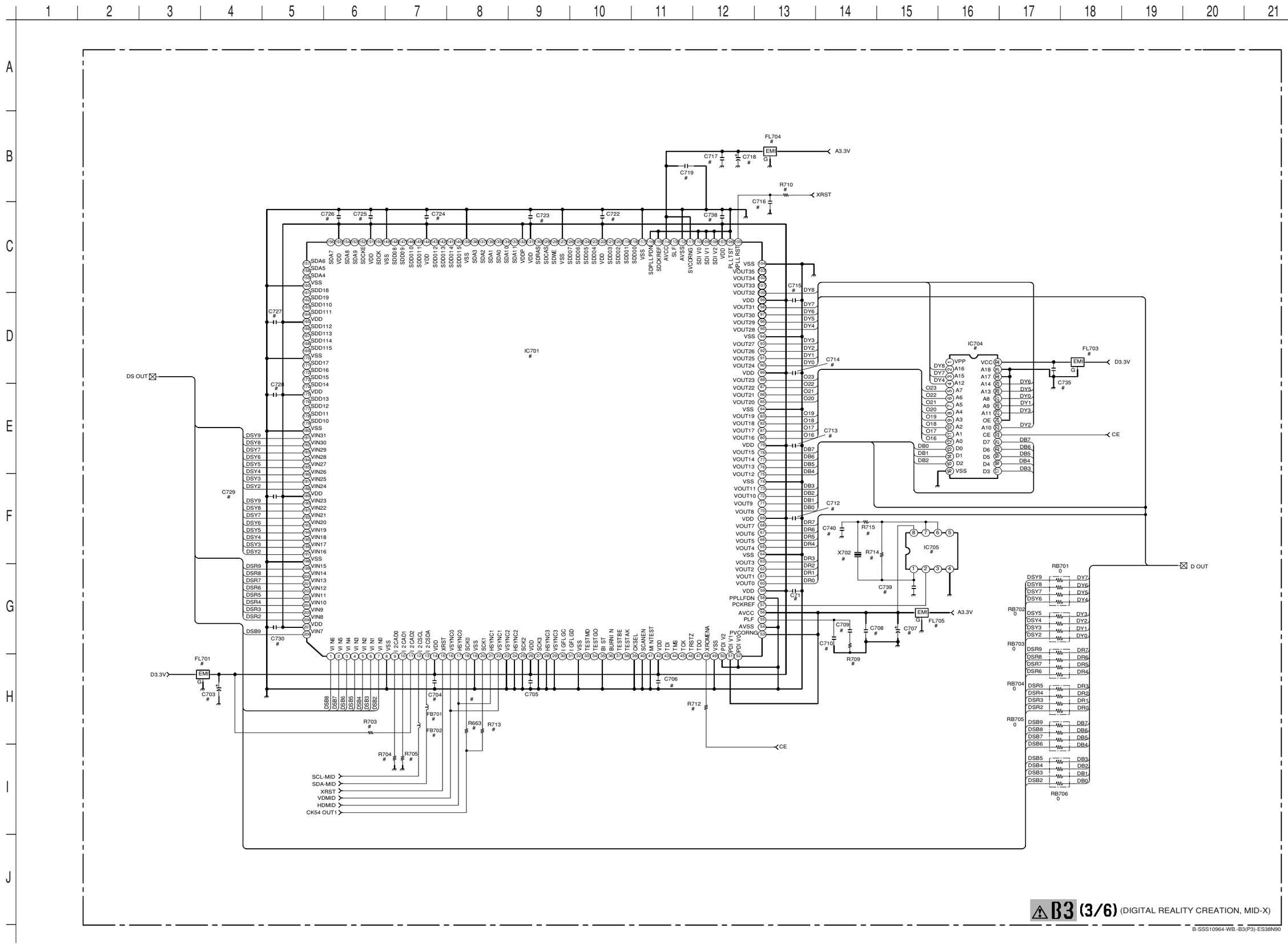


⚠B3 (1/6) (DIGITAL REALITY CREATION, MID-X)

B-SS10964-WB.-B3(P1)-ES38N90

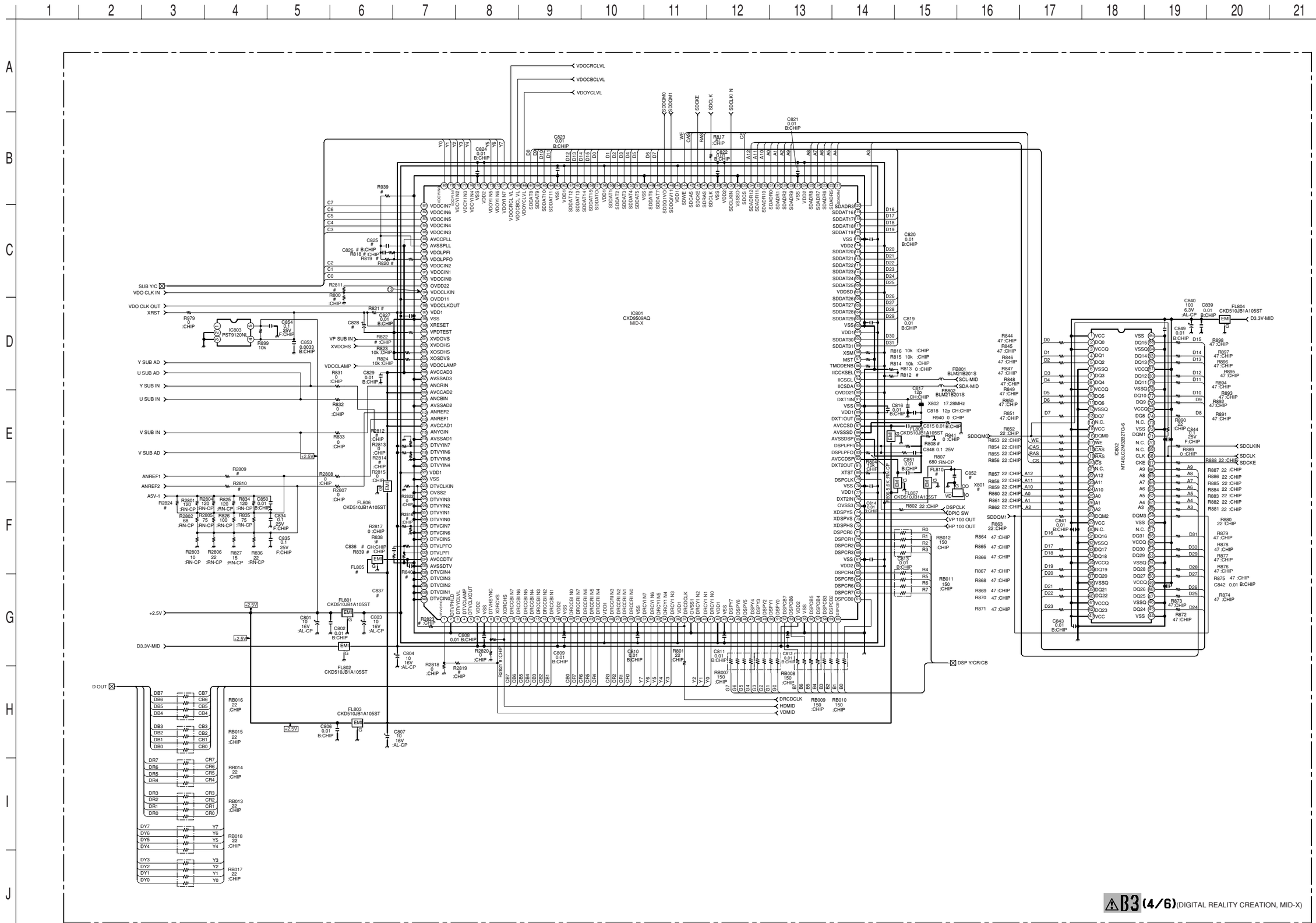

IC601
CXD2090Q
IC602
MT48LC1M16A1TG-6S
S-DRAM
IC603
TLC2932IPWR
PLL
IC604
CXA1875AM-T4
I/O EXPANDER
CN503
FL601
CKD510JB1A105ST
FL602
CKD510JB1A105ST
FL603
CKD510JB1A105ST
FL606
NFM51R30P507
Q601
2SC1623-L5L6
Q602
2SC1623-L5L6
FB601
BLM21B201S
D601
MA111-TX
+2.5V-1
D3.3V-1
D5V
3.3VGR
VP MAIN IN
HP MAIN IN
ADTB
YMCK
W1
WSYNC
DS OUT
DRCDCLK
CK54 OUT1
C54O
HDMID
VDMID
CK54
R1
HREF
FPD
PLL ENABLE IN
SDA
SCL
RB001 47 :CHIP
RB002 47 :CHIP
RB003 47 :CHIP
RB004 47 :CHIP
RB005 47 :CHIP
RB006 47 :CHIP
B-Y
R-Y
Y
B3 (2/6) (DIGITAL REALITY CREATION, MID-X)
B-SSS10964-WB.-B3(P2)-ES38N90

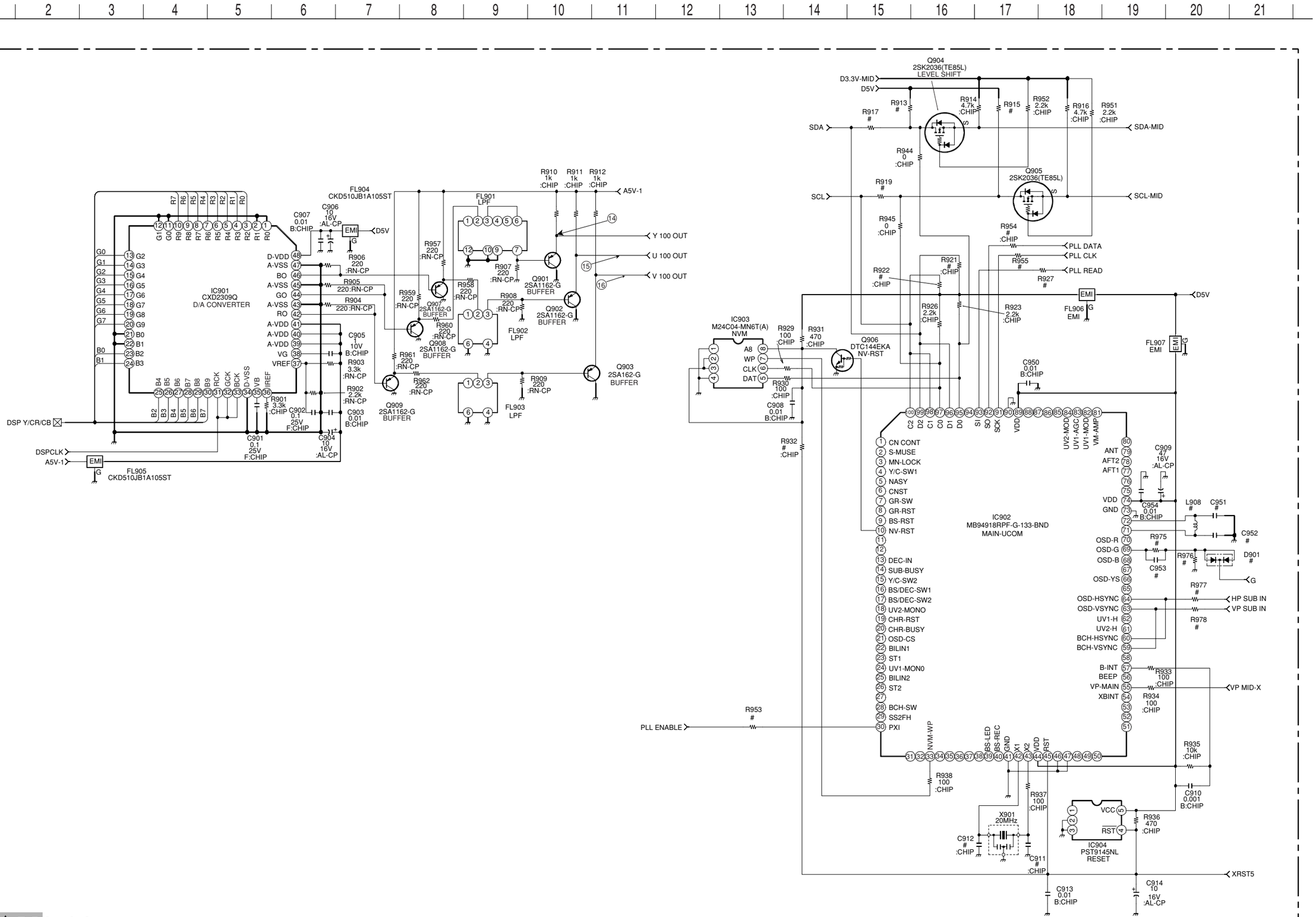
KV-ES38N90
RM-958



B3 (3/6) (DIGITAL REALITY CREATION, MID-X)

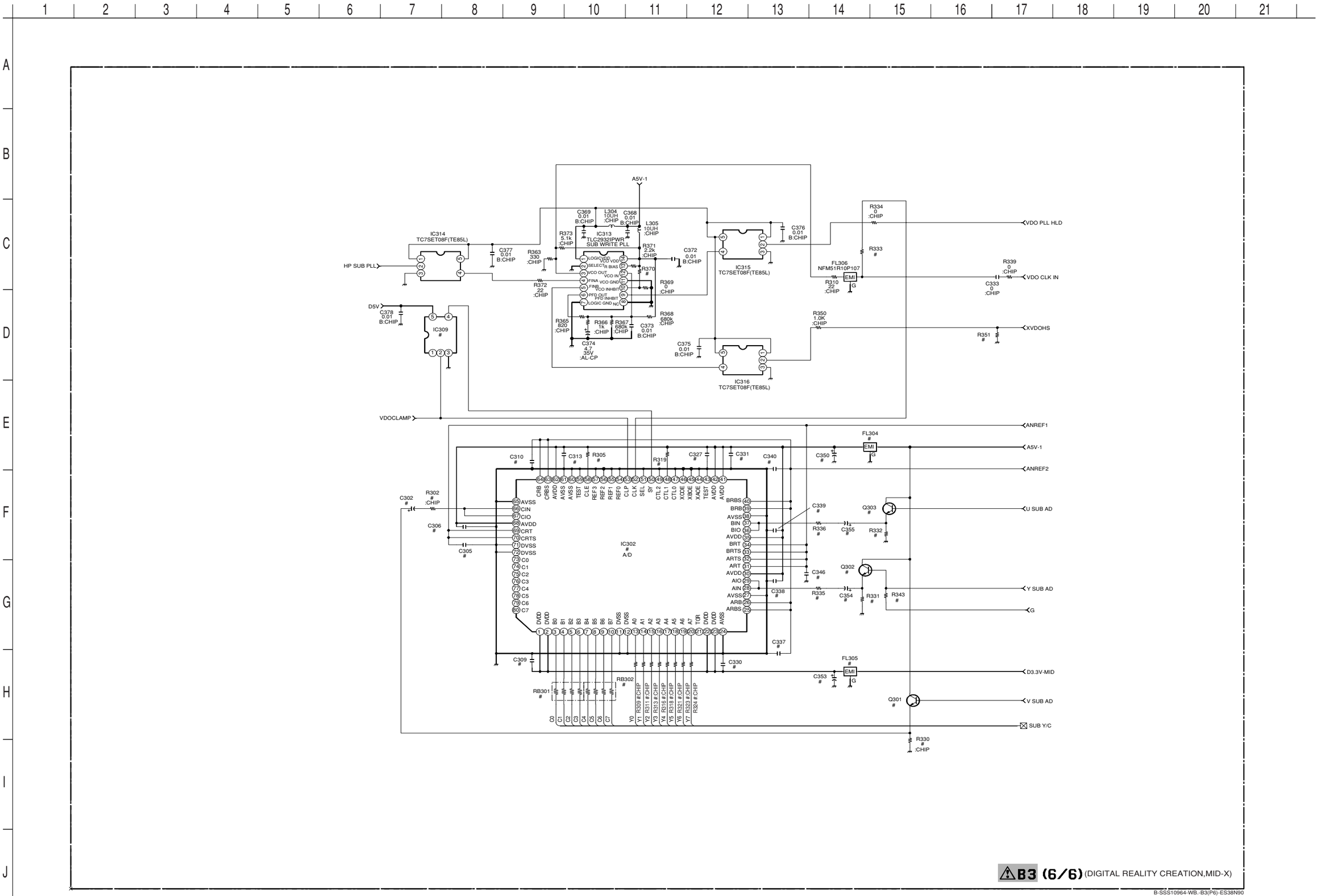
B-SSS10964-WB.-B3(P3)-ES38N90


IC801
CXD9509AQ
MID-X
IC803
PST9120NL
IC802
MT48LC2M32B2TG-6
FL801
CKD510JB1A105ST
FL802
CKD510JB1A105ST
FL803
CKD510JB1A105ST
FL804
CKD510JB1A105ST
FL805
FL806
CKD510JB1A105ST
FL807
CKD510JB1A105ST
FL808
CKD510JB1A105ST
FL810
SUB Y/C
VDO CLK IN
VDO CLK OUT
XRST
VP SUB IN
XVDOHS
VDOCLAMP
Y SUB AD
U SUB AD
Y SUB IN
U SUB IN
V SUB IN
V SUB AD
ANREF1
ANREF2
A5V-1
D OUT
DSP Y/CR/CB
DSPCLK
DPIC SW
VP 100 OUT
HP 100 OUT
SDCLKIN
SDCKE
SDCLK
SDDQM0
SDDQM1
SDA-MID
SCL-MID
D3.3V-MID
+2.5V
VDOCRCLVL
VDOCBCLVL
VDOYCLVL
DRCDCLK
HDMID
VDMID
X802 17.28MHz
X901
B3 (4/6) (DIGITAL REALITY CREATION, MID-X)
B-SSS10964-WB.-B3(P4)-ES38N90



⚠B3(5/6) (DIGITAL REALITY CREATION, MID-X)

B-SSS10964-WB.-B3(P5)-ES38N90



⚠B3 (6/6) (DIGITAL REALITY CREATION,MID-X)

B-SSS10964-WB.-B3(P6)-ES38N90

7-3. VOLTAGE MEASUREMENT

A BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC001	1	5.0
	2	0
	3	0.1
	4	<[5.0]>(0)
	5	5.0
	6	0
	7	0.3
	8	0.3
	9	<[0]>(5.0)
	10	<[5.0]>(0)
	11	<[0]>(2.4)
	12	<[0]>(3.2)
	13	<[0]>(5.0)
	14	<[0]>(5.0)
	15	0
	16	<[3.2]>(0.2)
	17	<[2.5]>(2.0)
	18	<[2.6]>(0)
	19	<[5.0]>(0)
	20	0
	21	0
	22	<[0]>(5.0)
	23	0
	24	0
	25	0
	26	<[0]>(5.0)
	27	<[0]>(0.6)
	28	0
	29	<[2.3]>(0)
	30	<[0]>(5.0)
	31	0
	32	0
	33	0
	34	0
	35	<[5.0]>(0)
	36	0
	37	0
	38	<[2.6]>(0)
	39	<[2.6]>(0)
	40	<[4.8]>(0)
	41	5.0
	42	0
	43	0.1
	44	0.1
	45	0
	46	0
	47	<[5.0]>(0)
	48	<[4.0]>(4.5)
	49	<[5.0]>(4.3)
	50	<[4.5]>(3.9)
	51	0
	52	<[2.4]>(0)
	53	0
	54	0
	55	0
	56	0
	57	0.1
	58	0
	59	0
	60	0
	61	0
	62	<[0]>(4.5)
	63	0.3
	64	<[4.9]>(0)
IC002	1	<[0]>(0.5)
	2	5.0
	3	0
IC003	1	0
	2	0
	3	0
	4	0
	5	5.0
	6	5.0
	7	0
	8	5.0
IC100	1	4.8
	2	4.8
	3	0
IC1201	1	4.4
	2	9.0
	3	0
	4	4.4
	5	4.4
	6	0
	7	4.4
	8	0
	9	4.4
	10	0
	11	4.4
	12	4.4
	13	4.4
	14	4.4
	15	4.4
	16	4.4
	17	4.4
	18	4.4
	19	4.3
	20	4.4
IC1203	1	-3.3
	2	-15.8
	3	*
	4	-0
	5	-16.6
	6	-5.3
	7	0
	8	-18.3
	9	-16.1
	10	7.4
	11	19.1
	12	0
	13	0
	14	0
	15	0
IC1204	1	0
	2	-8.0
	3	9.9
	4	0
	5	0
	6	-15.9
	7	0
	8	-19.0
	9	0
	10	5.9
	11	19.1
	12	-8.0
	13	19.1
	14	-19.0
	15	-19.0
IC1205	1	4.5
	2	0
	3	0
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9.0
IC2200	1	4.5
	2	0
	3	4.4
	4	0
	5	4.4
	6	0
	7	4.5
	8	9.0
IC2600	I	12.1
	G	0
	O	9.0
IC2601	I	6.8
	G	0
	O	5.0
IC2604	1	3.3
	2	2.5
	3	0
	4	1.2
	5	3.3
Q001	B	0
	C	0
	E	5.0
Q002	B	5.0
	C	0
	E	0
Q101	B	8.9
	C	2.1
	E	2.8
Q301	B	0
	C	12.0
	E	11.6
Q313	B	11.6
	C	0
	E	0
Q1205	B	0
	C	0
	E	0
Q1206	B	0.1
	C	0
	E	0
Q1207	B	5.5
	C	0
	E	0
Q1209	B	0
	C	0
	E	0
Q1210	B	0
	C	0
	E	0
Q1211	B	0
	C	0
	E	0
Q2200	B	0
	C	0
	E	0
Q2201	B	0
	C	0
	E	0
Q3300	B	3.1
	C	8.9
	E	8.3

A1 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC8102	I	3.1
	G	0
	O	5.0
IC8103	1	2.5
	2	2.5
	3	2.5
	4	0
	5	0
	6	4.9
	7	0
	8	1.4
	9	1.4
	10	3.2
	11	0
	12	1.6
	13	1.2
	14	1.2
	15	4.9
	16	2.4
	17	4.9
	18	0
	19	0
	20	3.2
	21	0
	22	0
	23	4.9
	24	0
	25	2.5
	26	2.5
	27	2.4
	28	2.4
IC8104	1	2.2
	2	3.2
	3	0
IC8105	1	3.2
	2	3.2
	3	0
	4	0
	5	4.4
	6	4.5
	7	3.2
	8	3.2
	9	3.2
	10	3.2
	11	3.2
	12	0
	13	0
	14	0
	15	0
	16	0
	17	0
	18	0
	19	0
	20	0
	21	0
	22	0.7
	23	0
	24	3.2
	25	0
	26	0
	27	3.2
	28	3.2
	29	0
	30	0
	31	0
	32	3.2
	33	3.2
	34	0.3
	35	0
	36	3.2
	37	1.6
	38	3.2
	39	3.2
	40	1.6
	41	3.2
	42	0
	43	2.9
	44	0
	45	0
	46	0
	47	0
	48	0
	49	0
	50	3.2
	51	0
	52	3.2
	53	3.2
	54	3.2
	55	3.2
	56	3.2
	57	3.2
	58	3.2
	59	3.2
	60	3.2
	61	3.2
	62	0
	63	0
	64	3.2
	65	3.2
	66	0
	67	3.2
	68	0
	69	0
	70	3.2
	71	3.2
	72	3.2
	73	3.2
	74	3.2
	75	0
	76	0
	77	3.2
	78	3.2
	79	0
	80	0
	81	0
	82	0
	83	0
	84	0
	85	0
	86	0
	87	0
	88	0
	89	3.2
	90	3.2
	91	0.9
	92	3.2
	93	3.2
	94	0
	95	0
	96	0
	97	0
	98	1.3
	99	1.4
	100	3.3
IC8106	1	1.7
	2	0.3
	3	0.1
	4	0
	5	3.2
	6	1.9
	7	1.9
	8	3.2
IC8107	1	-3.6
	2	1.3
	3	0

B3(1/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC302	1	0		68	4.7	IC311	I	8.9
	2	3.2		69	1.9		G	0
	3	1.3		70	1.9		O	5
	4	1.3		71	0	IC501	1	0
	5	1.3		72	0		2	0
	6	1.3		73	0.1		3	0
	7	1.3		74	0		4	0
	8	1.3		75	0		5	0
	9	1.3		76	0		6	1.1
	10	1.3		77	0		7	1.1
	11	0		78	0.1		8	1.0
	12	0		79	0.1		9	0.8
	13	0.5		80	0.1		10	1.5
	14	0 .5	IC303	1	4.9		11	0
	15	0.5		2	0		12	1.6
	16	0.5		3	0		13	1.4
	17	0.5		4	0		14	3.2
	18	-0.5		5	0		15	0
	19	0.6		6	1.7		16	3.2
	20	0		7	4.4		17	1.4
	21	1.3		8	3.7		18	1.6
	22	3.2		9	0.2		19	1.4
	23	3.2		10	4.9		20	1.6
	24	0		11	0		21	1.8
	25	0.3		12	0		22	1.6
	26	0.3		13	4.9		23	1.7
	27	0		14	4.9		24	1.6
	28	0.1		15	2.2		25	0
	29	0.1		16	2.7		26	4.7
	30	4.7		17	4.9		27	2.4
	31	1.9		18	4.9		28	0
	32	1.9		19	0		29	3.3
	33	1.9		20	0		30	0
	34	1.9		21	0		31	0
	35	4.7		22	0.1		32	0
	36	4.1		23	1.4		33	1.4
	37	4.1		24	0.3		34	0
	38	0		25	0		35	3.2
	39	0.3		26	4.9		36	1.4
	40	0.3		27	0		37	0
	41	4.7		28	4.9		38	0
	42	4.7		29	4.9		39	0
	43	0		30	0		40	0
	44	0		31	0		41	0
	45	0		32	0		42	0
	46	0		33	0		43	0
	47	4.6		34	0		44	0
	48	0		35	0		45	4.7
	49	4.9		36	4.9		46	0
	50	0		37	0		47	0
	51	1.5		38	0		48	0
	52	0		39	4.9		49	0.1
	53	0		40	0		50	0.1
	54	0		41	4.9		51	4.6
	55	0		42	0		52	4.6
	56	0		43	0		53	2.3
	57	4.6		44	1.1		54	2.3
	58	0		45	1.8		55	-0.0
	59	0		46	0		56	1.4
	60	0		47	0		57	-0.1
	61	0		48	0		58	3.1
	62	4.7	IC309	1	0		59	1.4
	63	0.3		2	0		60	1.4
	64	0		3	0		61	3.2
	65	0		4	4.9		62	4.6
	66	1		5	4.9		63	1.9
	67	1.1					64	-0.1

B3(2/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC504	1	4.2		51	0		121	1.3
	2	0		52	2.3		122	0
	3	0		53	0		123	1.3
	4	0		54	3.2		124	1.4
	5	0		55	0		125	1.0
	6	0.3		56	0		126	1.1
	7	0		57	3.2		127	1.0
	8	0		58	3.2		128	1.0
	9	0		59	2.7		129	1.1
	10	0		60	0		130	0
	11	0		61	0		131	1.0
	12	1.4		62	0		132	1.1
	13	2.8		63	0		133	0
	14	4.2		64	3.0		134	1.5
IC505	1	0		65	0.4		135	0
	2	3.2		66	0		136	1.7
	3	0		67	3.2		137	1.6
	4	0		68	0		138	1.1
	5	0		69	0		139	0
IC601	1	2.3		70	0		140	1.8
	2	0		71	3.2		141	2.3
	3	0		72	0		142	0
	4	0		73	2.3		143	0
	5	0		74	0		144	0
	6	0		75	0		145	1.2
	7	3.1		76	0		146	1.2
	8	3.1		77	3.2		147	1.5
	9	3.1		78	3.2		148	0
	10	0.5		79	0		149	1.7
	11	3.1		80	0		150	2.0
	12	0		81	3.2		151	1.5
	13	1.3		82	0		152	0
	14	1.4		83	0		153	1.7
	15	1.3		84	3.2		154	1.4
	16	1.1		85	0.3		155	0
	17	1.4		86	3.2		156	0
	18	1.5		87	0		157	3.2
	19	1.6		88	0		158	3.0
	20	1.5		89	0		159	3.1
	21	0		90	0		160	1.3
	22	3.2		91	1.6		161	1.4
	23	0		92	3.0		162	0
	24	1.5		93	2.3		163	0
	25	1.2		94	1.6		164	1.6
	26	1.1		95	3.2		165	1.6
	27	1.1		96	1.8		166	1.6
	28	1.3		97	3.0		167	1.5
	29	1.4		98	3.2		168	1.6
	30	1.4		99	0		169	1.4
	31	1.4		100	0		170	1.5
	32	3.2		101	0		171	1.5
	33	0		102	0.2		172	2.3
	34	0		103	2.3		173	0
	35	0		104	0		174	1.4
	36	0		105	0.3		175	1.5
	37	0		106	1.0		176	1.7
	38	0		107	0.9		177	1.5
	39	0		108	0		178	0.7
	40	0		109	0.5		179	1.0
	41	0		110	2.0		180	1.2
	42	0		111	3.3		181	1.2
	43	2.3		112	0		182	2.4
	44	0		113	0.5		183	0
	45	1.3		114	3.2		184	3.3
	46	0		115	0		185	3.3
	47	0		116	0		186	0
	48	0		117	1.5		187	3.3
	49	0		118	0		188	0
	50	3.2		119	1.7		189	0
				120	1.3		190	0

B3(3/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
	191	0
	192	0
	193	0
	194	0
	195	0
	196	0
	197	2.3
	198	0
	199	0
	200	0
	201	0
	202	0
	203	0
	204	0
	205	0
	206	0
	207	3.2
	208	0
IC602	1	3.2
	2	1.5
	3	1.6
	4	0
	5	1.7
	6	1.5
	7	0
	8	1.2
	9	0
	10	0
	11	0
	12	0
	13	0
	14	0.5
	15	3.2
	16	3.1
	17	0
	18	0
	19	0
	20	0
	21	0
	22	0
	23	0
	24	0
	25	0
	26	0
	27	0
	28	0
	29	0
	30	0
	31	0
	32	0
	33	0
	34	3.2
	35	1.4
	36	0.5
	37	0
	38	3.2
	39	1.6
	40	1.6
	41	0
	42	1.5
	43	1.3
	44	3.2
	45	1.1
	46	1.2
	47	0
	48	1.4
	49	1.4
	50	0
IC603	1	0
	2	0
	3	1.4
	4	0
	5	1.3
	6	1.4
	7	0
	8	0
	9	0
	10	0
	11	0
	12	1.4
	13	0
	14	3.4
IC604	1	4.9
	2	0
	3	3.0
	4	3.0
	5	3.0
	6	0.4
	7	0.3
	8	0
	9	0
	10	3.2
	11	0
	12	4.9
	13	0
	14	4.5
	15	4.4
	16	4.9
IC801	1	0
	2	0
	3	0
	4	0
	5	0
	6	3.2
	7	0
	8	0
	9	0
	10	0.2
	11	1.4
	12	1.8
	13	1.7
	14	1.4
	15	2.0
	16	1.6
	17	1.7
	18	3.2
	19	0
	20	1.6
	21	1.7
	22	1.5
	23	1.3
	24	1.7
	25	2.4
	26	1.7
	27	1.5
	28	1.4
	29	1.5
	30	0
	31	1.0
	32	1.1
	33	-2.0
	34	-1.9
	35	-1.9
	36	-0.8
	37	-2.0
	38	-3.2
	39	-1.9
	40	-1.7
	41	0
	42	-0.6
	43	-3.0
	44	-2.0
	45	-1.9
	47	-1.8
	48	-1.8
	49	-1.6
	50	-1.6
	51	1.2
	52	1.6
	53	1.5
	54	3.1
	55	-0.1
	56	1.3
	57	1.1
	58	1.1
	59	1.2
	60	1.3
	121	0
	122	2.5
	123	0
	124	1.6
	125	0
	126	0
	127	0
	128	0
	129	2.4
	130	0
	131	0
	132	0
	133	1.6
	134	1.6
	135	2.7
	136	0
	137	1.6
	138	3.3
	139	0
	140	1.6
	141	3.2
	142	2.9
	143	2.8
	144	3.0
	145	2.4
	146	0
	147	0
	148	2.1
	149	2.1
	150	0
	151	0.2
	152	1.1
	153	0
	154	0
	155	1.0
	156	0
	157	1.3
	158	1.5
	159	2.1
	160	1.3
	161	0
	162	0
	163	0
	164	2.0
	165	1.2
	166	0.7
	167	0.1
	168	2.0
	169	1.7
	170	1.7

B3(4/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
	171	0
	172	0.6
	173	0.6
	174	0
	175	0
	176	0
	177	0
	178	0.5
	179	0.5
	180	0.5
	181	1.3
	182	1.3
	183	0
	184	1.3
	185	1.3
	186	2.4
	187	0
	188	2.4
	189	2.4
	190	1.3
	191	0
	192	1.4
	193	3.2
	194	1.5
	195	2.4
	196	1.6
	197	0
	198	0
	199	0
	200	0
	201	0
	202	0
	203	0
	204	0
	205	0
	206	0.4
	207	0
	208	1.2
	209	2.4
	210	1.2
	211	0
	212	1.2
	213	0
	214	2.4
	215	0
	216	0
	217	0
	218	0
	219	0
	220	0
	221	2.4
	222	0
	223	0
	224	0
	225	0
	226	0
	227	0
	228	0
	229	0
	230	0
	231	0
	232	0.3
	233	0
	234	2.4
	235	0
	236	0
	237	0
	238	0
	239	0
	240	0
IC802	1	3.2
	2	1.4
	3	3.3
	4	0.8
	5	0.5
	6	0
	7	1.7
	8	0
	9	0.2
	10	2.0
	11	0
	12	0
	13	0
	14	0
	15	0
	16	0
	17	3.0
	18	2.8
	19	3.2
	20	2.7
	21	0
	22	1.6
	23	0
	24	0
	25	0
	26	0
	27	2.4
	28	0
	29	3.2
	30	0
	31	1.5
	32	0
	33	1.4
	34	1.1
	35	3.2
	36	3.2
	37	1.7
	38	0
	39	1.2
	40	1.4
	41	3.2
	42	0.8
	43	3.2
	44	0
	45	0
	46	0
	47	0
	48	0
	49	0
	50	0
	51	1.9
	52	0
	53	1.4
	54	1.3
	55	0
	56	3.2
	57	0
	58	0
	59	0
	60	0
	61	2.4
	62	2.4
	63	1.9
	64	1.6
	65	0
	66	0
	67	2.9
	68	1.6
	69	0
	70	0
	71	0
	72	0
	73	0
	74	0
	75	3.2
	76	0.9
	77	1.1
	78	0
	79	1.9
	80	1.6
	81	3.3
	82	1.7
	83	2.0
	84	0
	85	1.4
	86	0
IC901	1	0
	2	0
	3	1.3
	4	1.2
	5	0
	6	1.4
	7	0
	8	0
	9	0
	10	0
	11	0
	12	0
	13	1.3
	14	1.3
	15	0
	16	1.1
	17	1.1
	18	1
	19	0
	20	1.1
	21	0
	22	0
	23	0
	24	0
	25	1.5
	26	1.9
	27	1.5
	28	0
	29	1.5
	30	1.7
	31	1.2
	32	1.2
	33	1.2
	34	0
	35	0.9
	36	1.9
	37	1.9
	38	2.3
	39	4.7
	40	4.7
	41	4.7
	42	0.5
	43	0
	44	0.3
	45	0
	46	0.5
	47	0
	48	4.9

B3(5/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC902	1	0		60	0.1	Q502	B	0
	2	0		61	4.9		C	0
	3	0		62	4.9		E	0
	4	0		63	0	Q503	B	0
	5	0		64	0.1		C	0
	6	0		65	0		E	1.1
	7	0		66	0	Q510	B	0
	8	0		67	0		C	2.6
	9	0		68	0		E	2
	10	0		69	0	Q511	B	0
	11	0		70	0		C	1.7
	12	0		71	4.9		E	1
	13	0		72	4.9	Q512	B	4.7
	14	0		73	0		C	1.6
	15	0		74	4.9		E	1
	16	0		75	0	Q513	B	4.7
	17	0		76	0		C	2
	18	0		77	0		E	2
	19	0		78	0	Q514	B	4.7
	20	0		79	0		C	1.7
	21	0		80	0		E	*
	22	0		81	0	Q515	B	4.7
	23	4.9		82	0		C	1.8
	24	0		83	4.9		E	0
	25	0		84	4.9	Q517	B	4.9
	26	0		85	1.1		C	4.9
	27	0		86	0		E	4.2
	28	0		87	0	Q521	B	0
	29	4.9		88	0		C	2.6
	30	4.9		89	4.9		E	1.9
	31	0		90	0	Q522	B	4.7
	32	0		91	4.9		C	3.1
	33	4.9		92	0		E	2.5
	34	0		93	2.2	Q523	B	4.7
	35	0		94	0		C	2.5
	36	0		95	4.9		E	1.9
	37	0		96	4.9	Q601	B	0
	38	0		97	4.9		C	0
	39	0		98	4.9		E	0
	40	0		99	4.5	Q602	B	4.9
	41	0		100	4.4		C	0
	42	2.3	IC903	1	0		E	0
	43	2.3		2	0	Q903	B	0
	44	4.9		3	4.9		C	0.1
	45	4.9		4	0		E	0.5
	46	0		5	4.9	Q904	D	3.2
	47	0		6	4.9		G	4.9
	48	1.9		7	4.9		S	3.2
	49	2.4		8	0	Q905	D	3.2
	50	0	IC904	1	0		G	4.9
	51	0		2	0		S	0
	52	0		3	0	Q906	B	4.9
	53	0		4	4.9		C	0
	54	0		5	4.9		E	0
	55	0	Q501	B	0			
	56	0		C	0			
	57	4.9		E	0			
	58	0						
	59	0						

D1 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC6101	1	3.4
	2	1.6
	3	0
	4	0
	5	2.1
	6	0
	7	2.6
	8	5.0
IC6102	1	8.8
	2	4.3
	3	4.4
	4	4.9
	5	0
	6	1.6
	7	1.7
	8	4.8
IC6103	1	8.8
	2	3.1
	3	3.4
	4	1.9
	5	0
	6	1.7
	7	1.7
	8	3.4
IC6104	1	1.9
	2	2.1
	3	-15.8
	4	1.4
	5	6.9
IC6105	1	6.6
	2	4.2
	3	4.4
	4	0
	5	1.3
	6	1.3
	7	0.2
	8	8.8
IC6106	1	0
	2	0
	3	8.9
IC6108	1	2.7
	2	4.9
	3	0.3
	4	4.7
	5	3.6
	6	1.9
	7	1.8
	8	2.9
	9	1.2
	10	0.5
	11	1.6
	12	2.3
	13	5.0
	14	0
	15	5.0
	16	5.0
	17	5.0
	18	0
	19	0
	20	4.1
	21	4.5
	22	5.0
	23	0
	24	0
IC6351	1	8.8
	2	0.3
	3	4.4
	4	3.8
	5	0
	6	4.6
	7	4.2
	8	5.1
IC6353	I	12.4
	G	0
	O	5.0
IC6354	1	4.4
	2	0
	3	8.8
	4	0
	5	4.4
	6	4.4
	7	0
	8	3.9
IC6356	1	-3.4
	2	-3.4
	3	-3.2
	4	-3.3
	5	-15.9
	6	0
	7	-3.3
	8	-3.2
	9	-3.3
	10	11.9
Q6103	B	4.1
	C	4.2
	E	0
Q6104	B	5.2
	C	0.5
	E	0
Q6105	B	5.0
	C	3.4
	E	2.9
Q6106	B	-3.3
	C	3.1
	E	0
Q6107	B	12.4
	C	12.0
	E	5.8
Q6118	B	3.4
	C	0
	E	0
Q6125	B	8.8
	C	2.1
	E	2.2
Q6126	B	0
	C	2.2
	E	2.1
Q6128	B	8.8
	C	1.4
	E	3.2
Q6201	B	4.5
	C	0.4
	E	0
Q6202	B	2.8
	C	0.7
	E	0
Q6350	B	1.7
	C	0.4
	E	0
Q6356	B	1.8
	C	0.3
	E	0
Q6405	B	0
	C	4.4
	E	3.8
Q6455	B	8.8
	C	1.7
	E	1.1

C BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC9001	1	<[0]>(3.4)
	2	<[0]>(11.7)
	3	<[0]>(3.3)
	4	0
	5	<[0]>(8.8)
	6	<[0.1]>(200)
	7	<[0.8]>(14.7)
	8	<[0.5]>(15.6)
	9	<[1.0]>(14.7)
IC9002	1	<[0]>(3.4)
	2	<[0]>(11.7)
	3	<[0]>(3.3)
	4	0
	5	<[0]>(8.8)
	6	<[0.1]>(200)
	7	<[1.2]>(128)
	8	<[0]>(153.5)
	9	<[0]>(128)
IC9003	1	<[0]>(3.4)
	2	<[0]>(11.7)
	3	<[0]>(3.3)
	4	0
	5	<[0]>(8.9)
	6	<[0.1]>(200)
	7	<[1.2]>(138.6)
	8	<[0.6]>(152.4)
	9	<[1.6]>(138.6)
J9001	5	317
	7	0
	8	0
	10	152.0
	11	153.6
	12	157.0
Q9001	B	0
	C	<[0]>(4.5)
	E	<[0]>(8.2)
Q9009	B	0
	C	0
	E	<[0]>(2.9)
Q9010	B	0
	C	0
	E	<[0]>(3.4)
Q9011	B	0
	C	<[0]>(3.8)
	E	<[0]>(3.2)

D BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC6602	1	0
	2	6.0
	3	4.2
	4	0.0
	5	18.6
	6	0.0
	7	6.2
	8	4.0
IC6603	1	276
	2	127
	3	4.3
	4	0.4
	5	4.8
	6	2.2
	7	3.7
	8	3.7
	9	0
	10	0
	11	0
	12	0
	13	0
	14	18.5
	15	10.9
	16	4.9
	17	0.1
	18	133
	19	123
IC6604	1	0
	2	0
	3	0
	4	5.8
	5	269
	6	✻
	7	0
	8	0
IC6606	I	9.6
	G	0
	O	5.0
IC6804	I	12.2
	G	0
	O	8.8
IC6805	I	14.6
	G	0
	O	11.9
IC6806	I	8.1
	G	0
	VC	6.2
	O	21.2
IC6607	1	134
	2	2.4
	3	10.7
	4	0
IC6608	1	18.5
	2	2.9
	3	4.9
	4	0.0
	5	18.6
	6	0.0
	7	3.1
	8	2.3
IC6800	1	1.3
	2	14.0
	3	-13.1
	4	-15.8
	5	-0.5
	6	14.6
	7	1.3
IC6801	1	6.6
	2	1.4
	3	2.2
	4	0
	5	2.9
	6	6.6
	7	0.2
	8	8.8
Q6602	B	0.3
	C	12.0
	E	0.0
Q6603	B	11.2
	C	11.9
	E	12.0
Q6604	B	17.7
	C	18.4
	E	18.6
Q6605	B	0.7
	C	0.0
	E	0.0
Q6606	B	17.9
	C	18.5
	E	18.6
Q6609	B	5.0
	C	5.0
	E	0
Q6610	B	0.5
	C	5.0
	E	0.2
Q6611	B	0
	C	2.9
	E	0
Q6612	B	2.9
	C	0
	E	0
Q6613	B	0
	C	4.1
	E	0
Q6614	B	0
	C	-75.6
	E	0
Q6615	B	0.4
	C	18.6
	E	0.0
Q6800	B	14.6
	C	0.3
	E	0.9
Q6801	B	0.2
	C	11.1
	E	-0.5
Q6802	B	203
	C	136
	E	136
Q6803	B	6.6
	C	0
	E	6.5
Q6804	B	6.6
	C	8.8
	E	6.5
Q6805	B	77.5
	C	-0.3
	E	0
Q6806	B	-0.3
	C	65.2
	E	0
Q6807	B	-0
	C	242
	E	242
Q6808	B	240
	C	240
	E	240
Q6809	B	8.3
	C	3.4
	E	0
Q6810	B	135
	C	0
	E	0
Q6811	B	8.8
	C	-0
	E	-0
Q6812	B	-0.8
	C	8.6
	E	0
Q6813	B	5.8
	C	0.4
	E	0
Q6814	B	2.9
	C	8.8
	E	8.8
Q6815	B	135
	C	135
	E	134
Q6816	B	0.5
	C	0
	E	0
Q6817	B	0.5
	C	0
	E	0
Q6818	B	0
	C	3.2
	E	0
Q6819	B	8.8
	C	-10.9
	E	-0
Q6820	B	0.1
	C	0.2
	E	0
Q6821	B	-10.9
	C	0
	E	-0.1

E BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC4301	1	3.7		60	0	Q4319	B	1.9
	2	-0		61	4.5		C	6.9
	3	-0		62	4.1		E	6.3
	4	4.7		63	4.2	Q4800	B	-0
	5	3.4		64	3.5		C	-1.7
	6	3.4	IC4800	1	0.2		E	-0
	7	7.6		2	4.4	Q4801	B	3.2
	8	-0		3	4.6		C	2.2
	9	-0		4	0		E	0
	10	0.4		5	4.6	Q4802	B	4.4
	11	1.7		6	3.2		C	1.7
	12	8.9		7	0.3		E	0
	13	-0		8	8.9	Q4803	B	8.9
	14	5.0	IC4801	1	0.2		C	0
	15	2.5		2	4.5		E	4.7
	16	0		3	4.5	Q4804	B	-0
	17	-0		4	0		C	0.3
	18	2.6		5	4.5		E	-0
	19	4.1		6	3.2	Q4805	B	-0
	20	0		7	0.3		C	0
	21	6.0		8	8.9		E	-0
	22	1.5	IC4802	1	0	Q4806	B	3.2
	23	5.3		2	4.4		C	0
	24	-0		3	1.7		E	0
	25	5.1		4	1.7	Q4807	B	4.2
	26	2.6		5	0		C	0.2
	27	3.7		6	4.3		E	-0
	28	2.8		7	4.3	Q4808	B	-0
	29	4.1		8	4.9		C	2.0
	30	2.4	IC4803	1	7.7		E	3.2
	31	3.3		2	*	Q4809	B	-0
	32	8.9		3	0.4		C	2.0
	33	-0		4	0.0		E	3.1
	34	4.6		5	0.8	Q4810	B	8.9
	35	4.7		6	0.7		C	-0.1
	36	4.7		7	6.6		E	-0.1
	37	8.9		8	8.9	Q4811	B	8.9
	38	0	Q4304	B	8.9		C	0
	39	4.8		C	6.9		E	0.3
	40	4.8		E	6.2	Q4812	B	1.4
	41	4.8	Q4307	B	-0		C	-0
	42	-0		C	3.0		E	-0
	43	-0		E	2.3	Q4813	B	0
	44	-0	Q4308	B	-0		C	0.5
	45	6.3		C	3.4		E	1.2
	46	8.9		E	2.8	Q4814	B	0
	47	8.9	Q4310	B	-0		C	1.5
	48	5.2		C	3.2		E	1.6
	49	2.4		E	2.6	Q4815	B	0
	50	3.9	Q4315	B	0		C	1.5
	51	-0		C	1.5		E	0
	52	6.1		E	0	Q4816	B	-0
	53	5.8	Q4316	B	4.9		C	0.6
	54	5.8		C	0		E	0
	55	-0		E	0	Q4817	B	0
	56	5.8	Q4317	B	0		C	2.5
	57	5.8		C	2.7		E	2.2
	58	5.8		E	0			
	59	0.3						

J(1/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC8302	1	0.3
	2	0.8
	3	0.3
	4	0.8
	5	0.8
	6	-3.3
	7	1.3
	8	0.3
	9	0
	10	0.9
	11	0.8
	12	0.8
	13	-3.3
	14	1.3
	15	0.3
	16	0
	17	0.9
	18	0
	19	0.8
	20	-3.3
	21	1.3
	22	0.3
	24	0.3
	25	0.8
	26	0.8
	27	-3.3
	28	1.3
	29	0.8
	30	1.0
	31	0
	32	-3.6
	33	0.8
	34	*
	35	-3.6
	36	0.2
	37	0.8
	38	0.8
	39	0.1
	40	0.8
	41	1.7
	42	5.4
	43	0.8
	44	0.6
	47	0.8
	48	-3.6
	49	1.1
	50	0.8
	51	0.8
	52	0.8
	53	0.7
	54	0.1
	55	0.1
	56	-0.3
	57	-3.6
	58	0.7
	59	0.8
	60	1.1
	61	0.8
	62	0.8
	63	0.6
	64	0.8
IC8304	I	5.0
	G	0
	O	0
IC8305	I	9.0
	G	0
	O	12.3

Ref	Pin No	Voltage[v]
IC8306	1	-1.3
	2	-1.6
	3	-2.2
	4	-3.4
	5	-1.2
	6	1.3
	7	-1.0
	8	-3.6
	9	-3.2
	10	-2.8
	11	-1.2
	12	1.3
	13	0.9
	14	0.8
	15	0
	16	0
	17	0
	18	0
	19	-2.2
	20	-1.1
	21	-1.9
	22	-1.7
	23	1.8
	24	-3.6
	25	-0.8
	26	0.9
	27	-0.8
	28	-3.6
	29	-0.8
	30	-0.8
	31	-1.6
	32	1.3
	33	-0.8
	34	-0.7
	35	-0.7
	36	-3.6
	37	-2.5
	38	0.3
	39	1.7
	40	3.2
	41	2.2
	42	0
	43	1.7
	44	2.2
	45	4.9
	46	2.3
	47	3.7
	48	1.7
IC8308	1	0.8
	2	-1.0
	3	-1.2
	4	-3.4
	5	1.3
	6	0
	7	-1.0
	8	-3.6
	9	3.2
	10	0.7
	11	-0.5
	12	0
	13	1.3
	14	0
	15	-3.6
	16	-3.6
	17	-1.1
	18	-1.1
	19	-2.2

Ref	Pin No	Voltage[v]
	20	-1.2
	21	-1.6
	22	0
	23	-1.7
	24	0
	25	-0.7
	26	-0.8
	27	-0.7
	28	-3.6
	29	[
	30	-0.7
	31	-1.5
	32	1.3
	33	0.6
	34	-0.6
	35	-0.6
	36	0
	37	-2.5
	38	0.3
	39	1.9
	40	-0.2
	41	-0.2
	42	1.0
	43	-1.9
	44	-1.7
	45	1.1
	46	-0.7
	47	-0.7
	48	1.8
IC8309	1	0.5
	2	0
	3	-0.8
	4	0
	5	0
	6	0
	7	0
	8	0
IC8310	1	-2.8
	2	-3.6
	3	-0
	4	-0
	5	-0
	6	-1.5
	7	-3.6
	8	1.4
	9	2.1
	10	-3.6
	11	[
	12	-3.6
	13	-3.6
	14	0.8
	15	1.4
	16	-0.9
	17	-0.8
	18	-3.6
	19	-0.5
	20	4.6
	21	-1.1
	22	0
	23	-3.6
	24	-3.6
IC8312	1	-3.6
	2	-3.2
	3	1.3
	4	1.3
	5	-3.2

J(2/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
Q8302	B	5.4
	C	0.8
	E	0.2
Q8303	B	5.4
	C	0.6
	E	0
Q8304	B	5.4
	C	0.6
	E	0
Q8306	B	5.4
	C	1.7
	E	1.1
Q8308	B	5.4
	C	0.1
	E	0.4
Q8309	B	5.4
	C	0.8
	E	0.2
Q8310	B	-0
	C	-3.5
	E	-3.5
Q8325	B	5.4
	C	0
	E	0
Q8326	B	-0
	C	-3.3
	E	0
Q8327	B	-3.4
	C	0
	E	-3.6
Q8328	B	1.8
	C	-3.4
	E	-3.6
Q8329	B	2.0
	C	-1.1
	E	-1.8
Q8330	B	5.4
	C	2.0
	E	1.4
Q8331	B	2.7
	C	-1.8
	E	-0
Q8332	B	5.4
	C	2.7
	E	2.1
Q8333	B	2.0
	C	1.5
	E	2.1
Q8334	B	5.4
	C	2.9
	E	2.2
Q8335	B	2.0
	C	1.5
	E	2.2
Q8336	B	5.4
	C	2.9
	E	2.3
Q8342	B	4.8
	C	0.9
	E	0
Q8343	B	0.7
	C	0
	E	4.8
Q8346	B	0
	C	5.4
	E	4.7
Q8347	B	4.7
	C	0
	E	-1.1
Q8348	B	0
	C	0
	E	0
Q8349	B	4.7
	C	-0.5
	E	-1.1
Q8350	B	0.7
	C	0
	E	0
Q8351	B	4.7
	C	-0.9
	E	1.5
Q8352	B	0
	C	5.4
	E	4.7
Q8355	B	5.4
	C	0.1
	E	0.4

DH BOARD VOLTAGE LIST

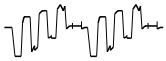
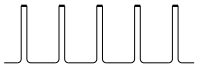
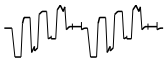
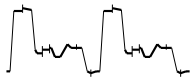
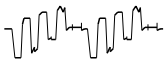
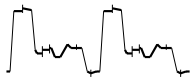
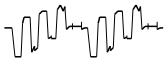
Ref	Pin No	Voltage[v]
IC3805	1	3.4
	2	4.1
	3	2.8
	4	2.8
	5	0
	6	0
	7	2.8
	8	2.8
	9	2.4
	10	6.7
IC3807	1	12.2
	2	0
	3	2.5
	4	2.2
	6	0
	7	5.4
	8	0
Q3807	B	0
	C	5.0
	E	0
Q3808	B	5.0
	C	0
	E	0
Q3809	B	0
	C	2.0
	E	2.8
Q3810	B	2.5
	C	0
	E	3.2
Q3811	B	3.2
	C	6.8
	E	2.5
Q3812	B	0
	C	2.0
	E	2.8

VM BOARD VOLTAGE LIST

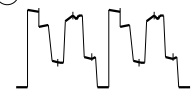
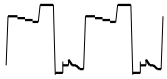
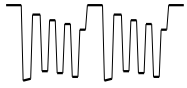
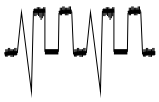
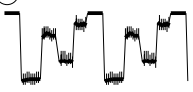
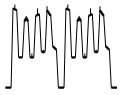
Ref	Pin No	Voltage[v]
Q5400	B	1.9
	C	8
	E	1.2
Q5401	B	5.0
	C	2.0
	E	1.4
Q5402	B	5.5
	C	8.8
	E	5.8
Q5403	B	5.9
	C	8.9
	E	5.7
Q5404	B	5.0
	C	0
	E	5.5
Q5405	B	5.5
	C	0
	E	5.7
Q5406	B	1.3
	C	0.7
	E	0.9
Q5407	B	134
	C	57
	E	134

7-4. WAVEFORMS

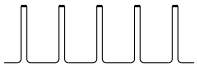
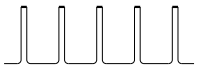
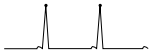
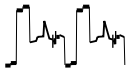
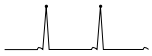
B3 BOARD WAVEFORMS

① 1.7Vp-p (H)	② 1.0Vp-p (H)	③  1.1Vp-p (H)	④ 4.7Vp-p (V)	⑤ 4.9Vp-p (V)
⑥ 2.3Vp-p (V)	⑦ 2.2Vp-p (V)	⑧  2.8Vp-p (V)	⑨ 3.1Vp-p (V)	⑩  0.6Vp-p (H)
⑪  0.6Vp-p (H)	⑫ 1.0Vp-p (H)	⑬ 3.5Vp-p (V)	⑭ 0.9Vp-p (H)	⑮  0.6Vp-p (H)
⑯  0.5Vp-p (H)	⑰ 3.7Vp-p (V)	⑱  0.6Vp-p	⑲ 0.1Vp-p (H)	⑳ 0.6Vp-p

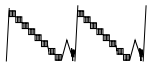
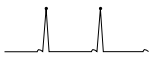
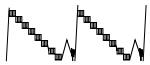
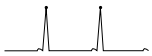
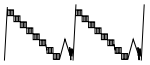
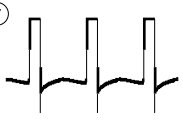
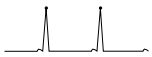
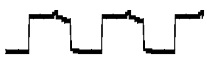
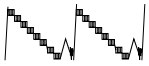
C BOARD WAVEFORMS

① PAL  118Vp-p (H)	① SECAM/NTSC 118Vp-p (H)	②  117Vp-p (H)	③  123Vp-p (H)	④ 23.2Vp-p (H)
⑤  4.5Vp-p (H)	⑥  4.4Vp-p (H)	⑦  4.4Vp-p (H)		

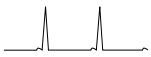
A BOARD WAVEFORMS

①  5.0Vp-p (V)	② 4.0Vp-p (V)	③ 0.2Vp-p (V)	④ 0.2Vp-p (V)	⑤ 0.2Vp-p (V)
⑥  5.0Vp-p (V)	⑦  5.1Vp-p (H)	⑧ 2.6Vp-p (H)	⑨ 2.9Vp-p (H)	⑩  2.3Vp-p (H)
⑪  4.8Vp-p (H)	⑫ 4.9Vp-p (V)			

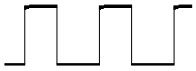
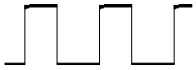
D BOARD WAVEFORMS

①  0.7Vp-p (H)	②  28.8Vp-p (H)
③  0.9Vp-p (H)	④  108Vp-p (H)
⑤  2.4Vp-p (H)	⑥ 222Vp-p
⑦  52.4Vp-p (H)	⑧  6.7Vp-p (H)
⑨  3.8Vp-p (H)	⑩  1.7Vp-p (H)
⑪ 7.8Vp-p (H)	

D1 BOARD WAVEFORMS

①  80Vp-p (H)	② 0.5Vp-p
③ 294Vp-p	④ 8.8Vp-p

E BOARD WAVEFORMS

① 1.5Vp-p (V)	② 1.4Vp-p (V)	③  5.0Vp-p (V)	④ 2.4Vp-p	⑤ 2.4Vp-p
⑥ 2.4Vp-p (H)	⑦  7.3Vp-p (V)			

J BOARD WAVEFORMS

① 1.3Vp-p (H)	② 2.6Vp-p (H)	③ 1.6Vp-p (H)	④ 1.7Vp-p (H)	⑤ 1.4Vp-p
⑥ 1.4Vp-p (H)	⑦ 1.0Vp-p (H)	⑧ 1.4Vp-p (H)	⑨ 0.3Vp-p (H)	⑩ 0.5Vp-p (H)
⑪ 0.5Vp-p (H)	⑫ 0.5Vp-p (H)	⑬ 0.4Vp-p (H)	⑭ 2.1Vp-p (H)	

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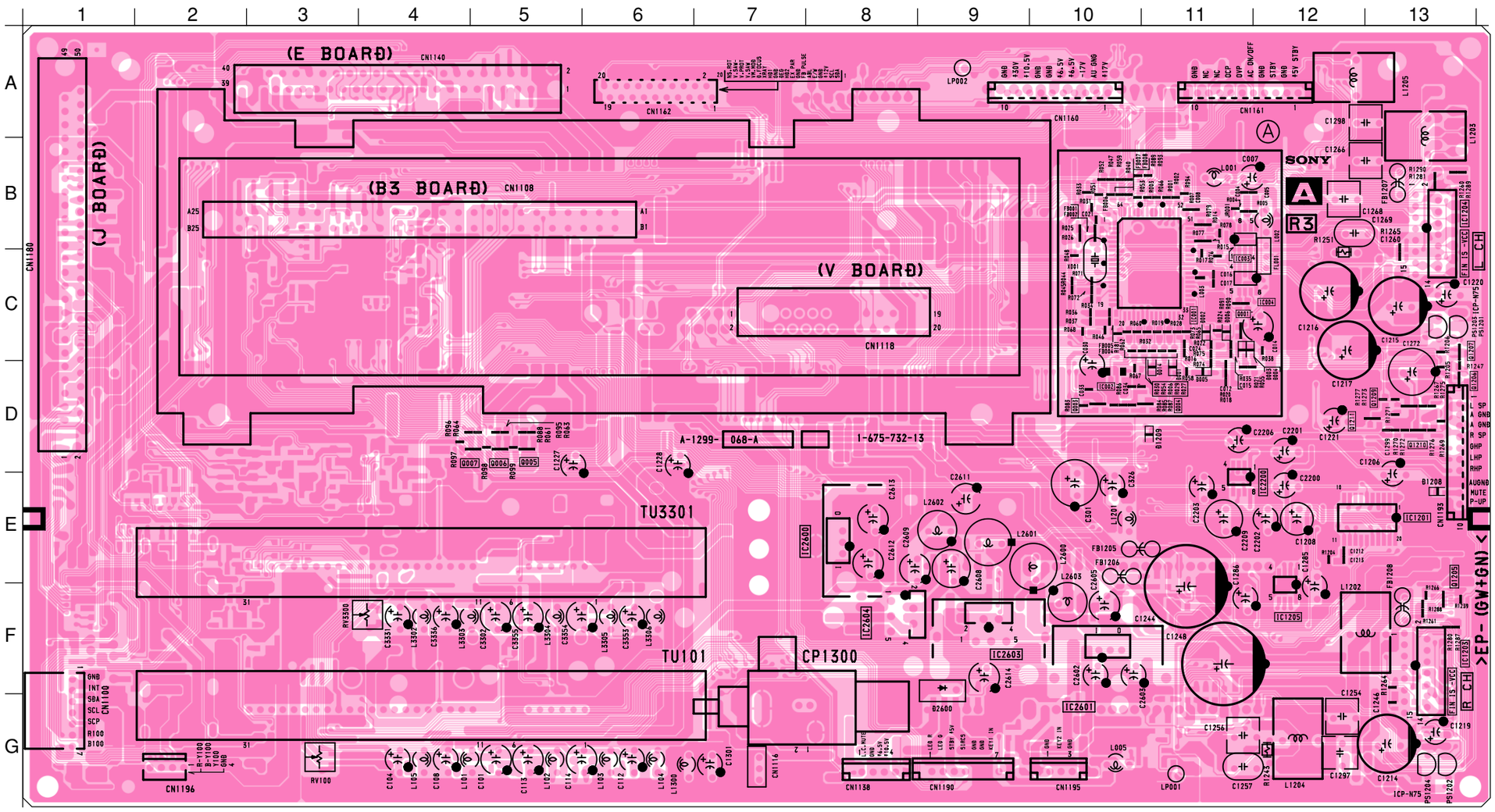
7-5. PRINTED WIRING BOARDS AND PARTS LOCATION BOARDS

PRINTED WIRING BOARDS

A [MAIN-MICON, TUVIF, AUDIO AMP]

– A Board (Component Side) –



A BOARD (Component Side)

IC	
IC001	C-11
IC002	D-10
IC003	C-11
IC004	C-12
IC1201	E-13
IC1203	F-13
IC1204	B-13
IC1205	F-12
IC2200	E12
IC2600	E-8
IC2601	G-10
IC2603	F-9
IC2604	F-8

TRANSISTOR	
Q001	C-11
Q003	D-10
Q004	D-11
Q005	D-5
Q006	D-5
Q007	D-4
Q1206	D-13
Q1207	C-13
Q1209	D-13
Q1210	D-13
Q1211	D-12

DIODE	
D003	D-12
D004	D-12
D014	D-11
D1208	E-13
D1209	D-11
D2600	G-9

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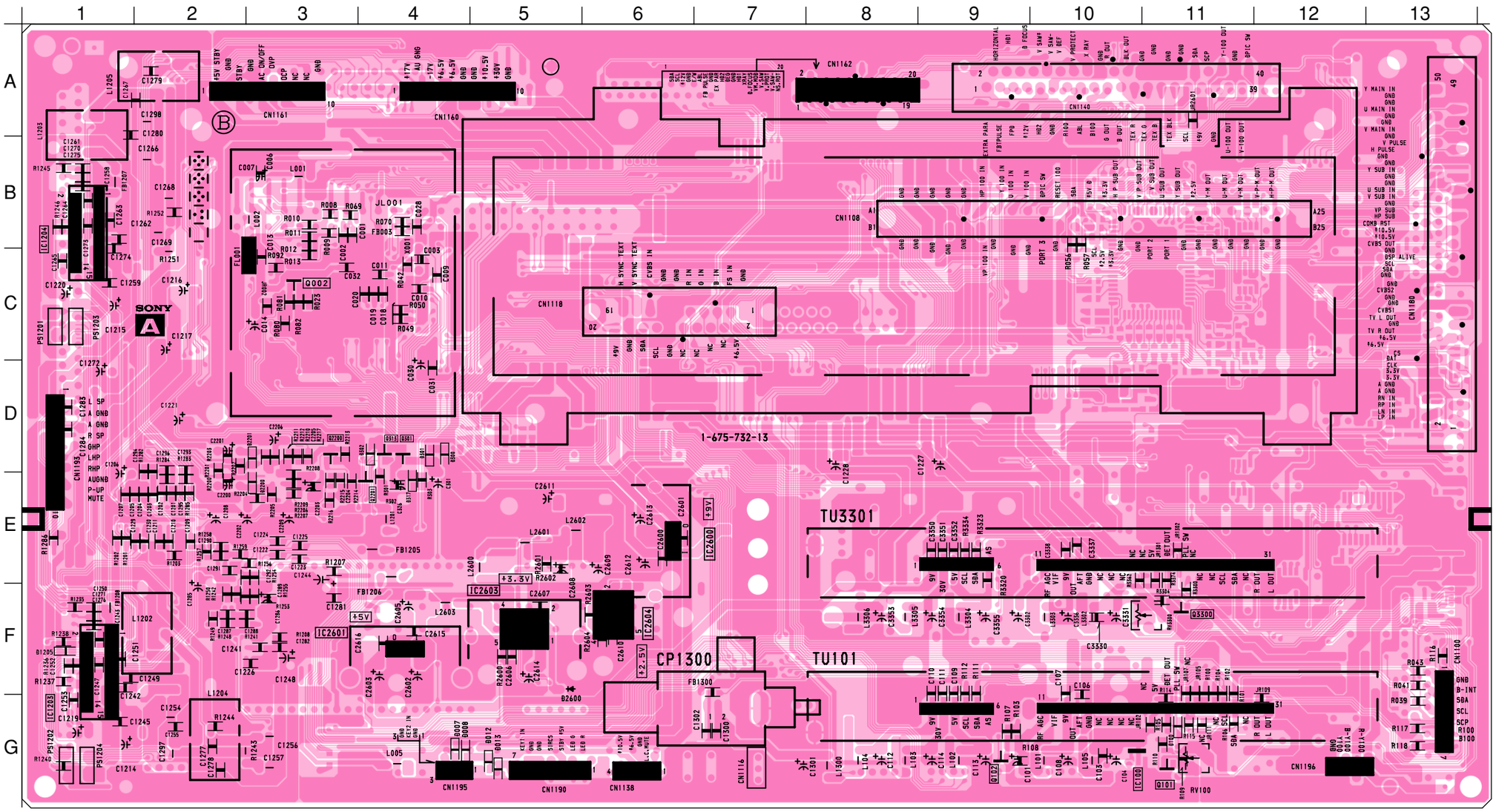
PRINTED WIRING BOARDS

A [MAIN-MICON, TUVIF, AUDIO AMP]

– A Board (Conductor Side) –



A BOARD

IC	
IC100	G-10
IC1203	G-1
IC1204	B-1
IC2601	F-3
IC2603	F-5
TRANSISTOR	
Q101	G-11
Q102	G-9
Q301	D-4
Q313	D-4
Q2200	D-3
Q2201	E-4
Q3300	F-11
DIODE	
D007	G-4
D008	G-4
D012	G-5
D013	G-5
D100	G-11
D302	D-3
D317	E-4
D1205	F-1
D2200	E-3
D2201	D-2

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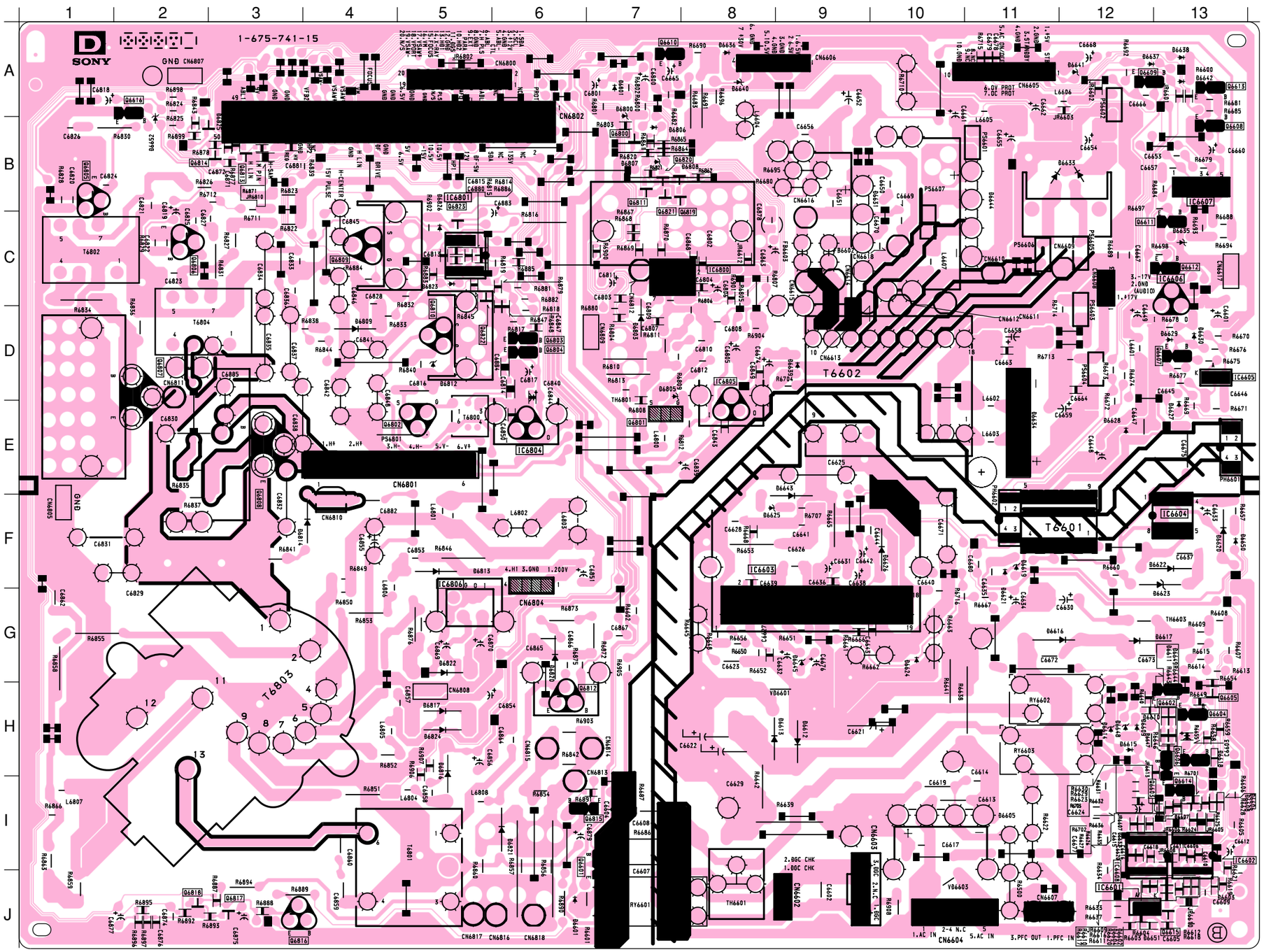
PRINTED WIRING BOARD

D [POWER SUPPLY DEFLECTION HV]

– D Board –



NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

A BOARD

IC

IC6601	J-12
IC6602	I-13
IC6603	F-8
IC6604	F-13
IC6605	D-13
IC6606	C-13
IC6607	B-13
IC6608	I-12
IC6800	C-8
IC6801	B-5
IC6804	E-6
IC6805	D-8
IC6806	F-5

TRANSISTOR

Q6601	I-6
Q6602	H-13
Q6603	I-12
Q6604	H-13
Q6605	H-13
Q6606	H-13
Q6607	D-13
Q6608	B-13
Q6609	A-12
Q6610	A-7
Q6611	C-12
Q6612	C-13
Q6613	A-13
Q6614	I-13
Q6615	J-13
Q6616	A-2
Q6800	B-7
Q6801	E-7
Q6803	D-6
Q6804	D-6
Q6805	B-1
Q6806	C-2
Q6807	D-2
Q6808	F-3
Q6809	C-4
Q6810	D-5
Q6811	B-7
Q6812	H-6
Q6813	B-3
Q6814	B-2
Q6815	I-7
Q6816	J-3
Q6817	J-3
Q6818	J-2
Q6819	B-8
Q6820	B-8
Q6821	B-7
Q6822	D-5
Q6823	B-5

DIODE

D6601	J-6
D6602	J-12
D6603	J-13
D6604	J-12
D6605	I-11
D6606	I-13
D6607	I-13
D6608	I-13
D6609	H-12
D6610	H-12
D6611	G-13
D6612	H-9
D6613	H-9
D6614	H-12
D6615	H-12
D6616	G-11
D6617	G-13
D6619	F-11
D6620	F-13
D6621	G-11
D6622	F-13
D6623	G-13
D6624	G-10
D6625	F-8
D6626	F-10
D6627	E-13
D6628	E-12
D6629	D-13
D6630	D-13
D6631	B-10
D6633	B-12
D6634	E-11
D6635	C-13
D6636	A-8
D6637	A-12
D6638	A-13
D6639	D-9
D6640	A-8
D6641	A-12
D6642	A-13
D6643	E-9
D6644	B-11
D6645	G-9
D6648	H-12
D6649	G-13
D6650	F-13
D6651	J-12
D6652	B-2
D6800	A-7
D6801	A-7
D6802	E-4
D6803	D-7
D6805	D-7
D6806	B-7
D6807	B-7
D6808	B-8
D6809	D-4
D6812	D-5
D6813	F-5
D6814	F-3
D6816	H-5
D6817	H-5
D6820	G-6
D6821	I-6
D6822	G-5
D6823	C-5
D6824	H-5
D6825	A-3

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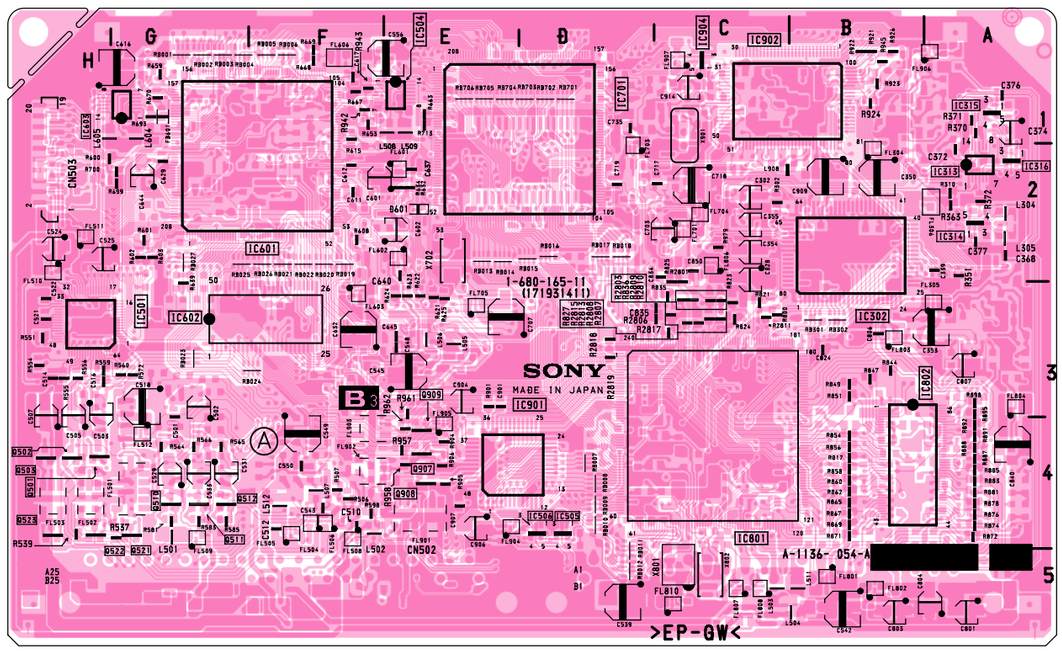
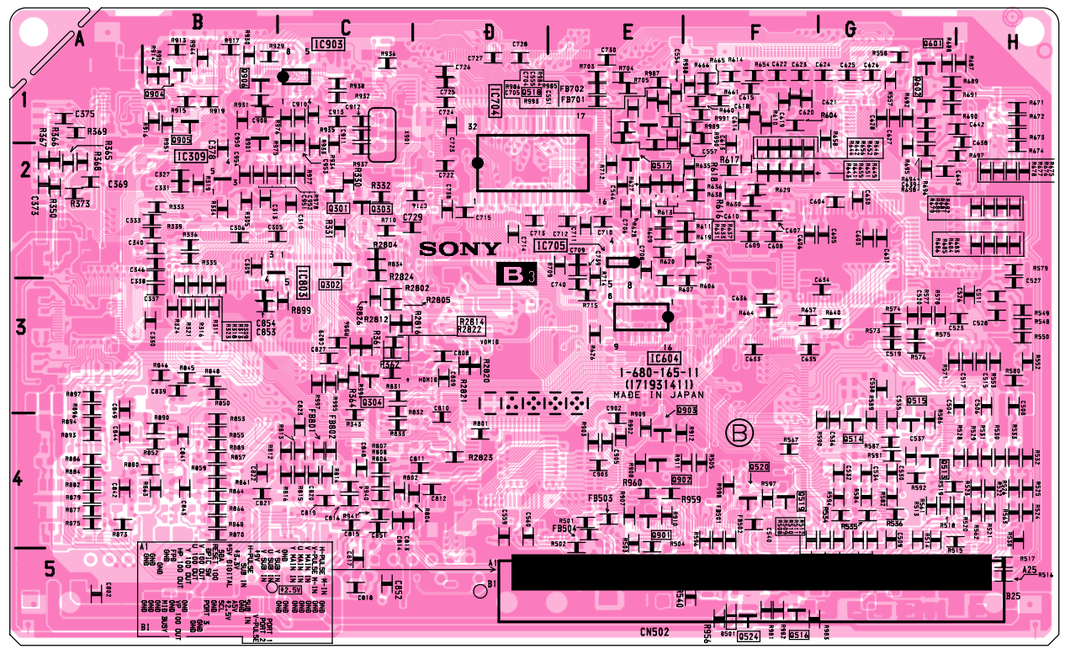
PRINTED WIRING BOARD

B3 [DRC, MID, DRC/MID CONTROLLER] **D1** [DF, DQP DRIVE]

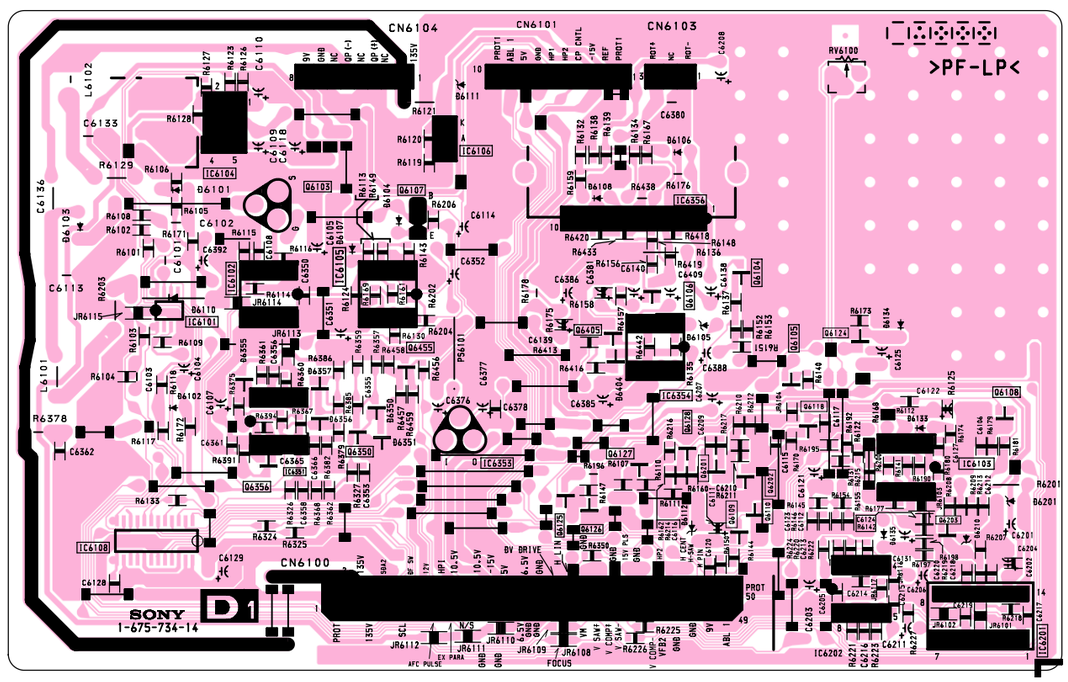
– B3 Board (Component Side) –



– B3 Board (Conductor Side) –



– D1 Board –



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

B3 BOARD (Conductor Side)

IC		Q519	D-6
		Q520	D-6
IC304	A-1	Q524	E-6
IC309	B-2	Q601	A-7
IC311	C-1	Q602	A-7
IC604	C-5	Q901	D-5
IC704	A-4	Q902	D-5
IC705	B-4	Q903	C-6
IC803	C-3	Q904	A-2
IC903	A-3	Q905	A-2
TRANSISTOR		Q906	A-2
		DIODE	
Q513	D-7		
Q514	D-7	D301	A-7
Q515	C-7	D302	B-5
Q516	E-6	D901	B-11
Q517	B-5		
Q518	A-4		

B3 BOARD (Component Side)

IC		TRANSISTOR	
IC302	C-7	Q501	D-6
IC303	B-8	Q502	E-7
IC305	B-7	Q503	F-6
IC306	B-8	Q510	D-2
IC307	A-7	Q511	F-1
IC308	A-7	Q512	D-2
IC310	A-7	Q521	E-2
IC311	C-8	Q522	E-1
IC501	C-1	Q523	D-1
IC504	A-4	Q907	D-4
IC505	D-5	Q908	D-3
IC506	D-4	Q909	C-4
IC601	I-8	DIODE	
IC602	H-6		
IC603	D-8	D601	I-8
IC701	A-5		
IC801	E-6		
IC802	C-7		
IC901	I-13		
IC902	A-6		
IC904	A-6		

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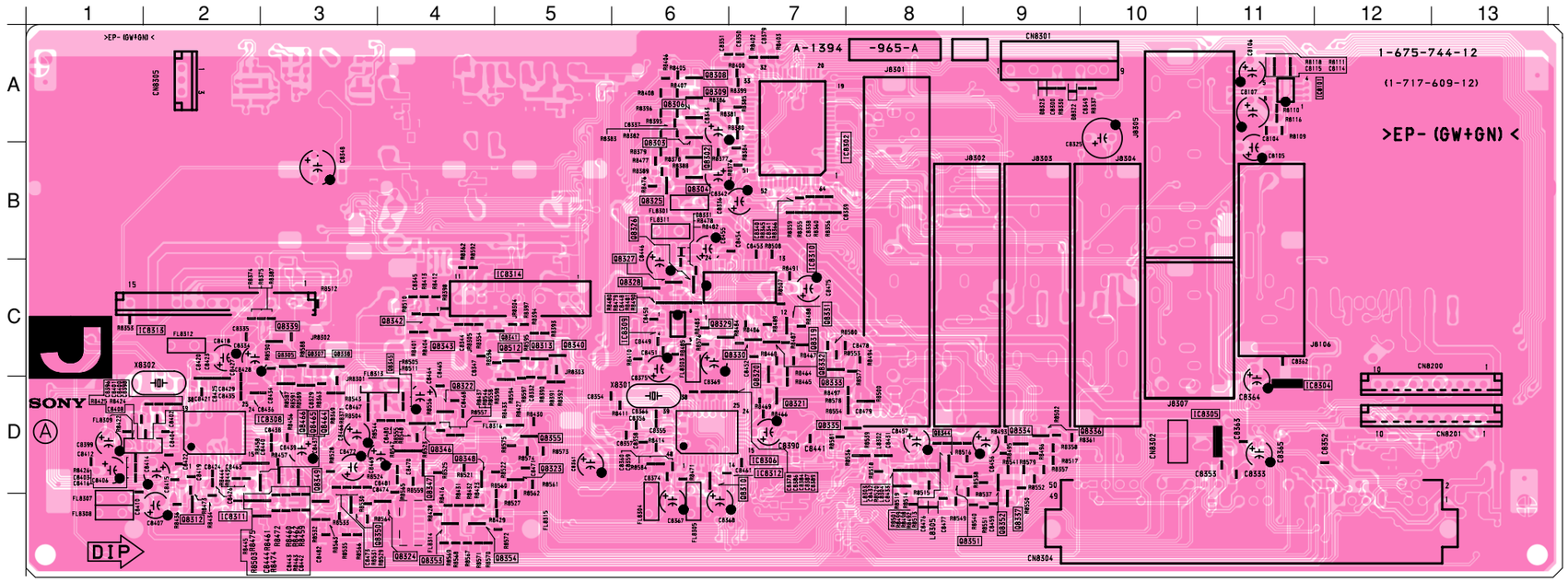
PRINTED WIRING BOARD

J [YCT, COMB FILTER, VIDEO/AUDIO-IN/OUT]

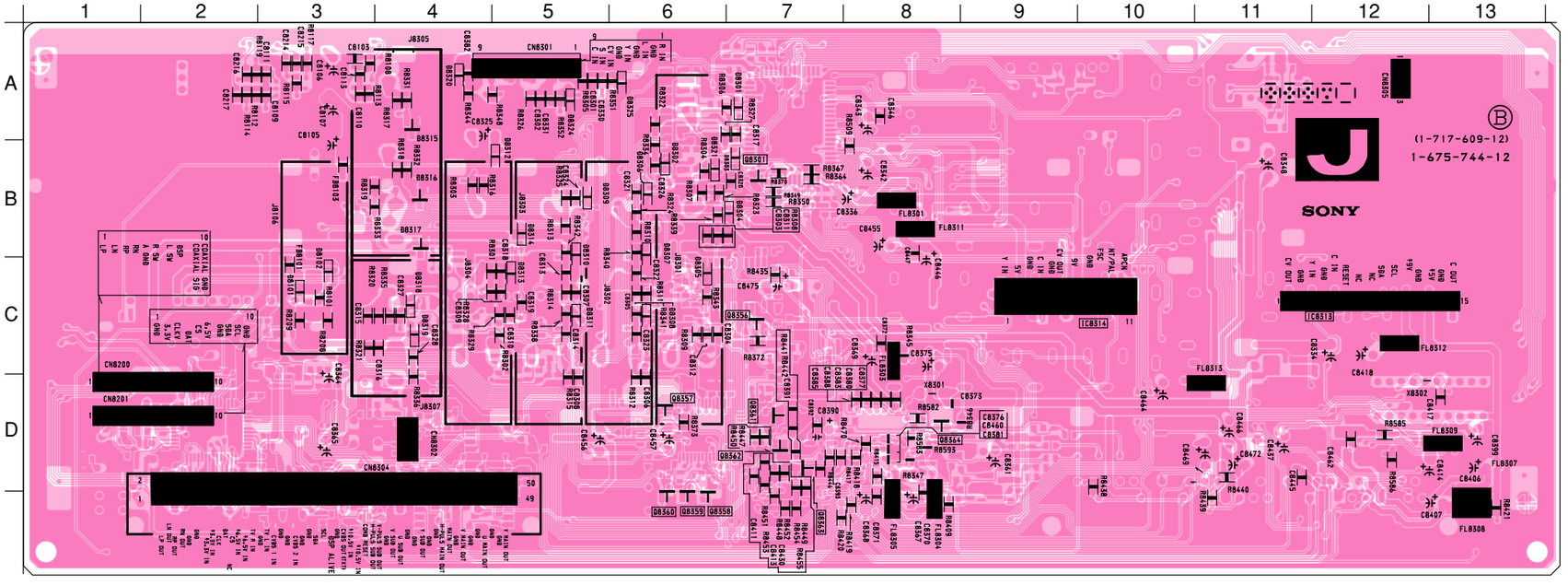
– J Board (Component Side) –



J BOARD (Component Side)

IC		Q8307	C-3	Q8339	C-3
		Q8308	A-6	Q8340	C-5
IC0302	A-8	Q8309	A-6	Q8341	C-5
IC8101	A-12	Q8310	D-7	Q8342	C-4
IC8102	E-13	Q8312	E-3	Q8343	C-4
IC8103	B-13	Q8313	C-5	Q8344	D-8
IC8105	A-13	Q8319	C-7	Q8345	C-3
IC8106	C-12	Q8320	C-7	Q8346	D-4
IC8107	D-12	Q8321	D-7	Q8347	D-4
IC8304	D-12	Q8322	D-4	Q8348	D-5
IC8305	D-11	Q8323	D-5	Q8349	E-3
IC8306	D-7	Q8324	D-4	Q8350	D-4
IC8308	D-2	Q8325	B-6	Q8351	D-9
IC8309	C-6	Q8326	B-6	Q8352	E-9
IC8310	B-7	Q8327	B-6	Q8353	E-5
IC8311	E-3	Q8328	C-6	Q8354	E-5
IC8312	D-7	Q8329	C-7	Q8355	D-5
IC8313	C-2	Q8330	C-7		
IC8314	B-5	Q8331	C-7		
TRANSISTOR		Q8332	C-7		
		Q8333	C-7		
Q8302	A-6	Q8334	D-9		
Q8303	A-6	Q8335	D-7		
Q8304	B-6	Q8336	D10		
Q8305	C-3	Q8337	E-9		
Q8306	A-6	Q8338	C-3		

– J Board (Conductor Side) –



J BOARD (Conductor Side)

IC		D8302	B-6
		D8303	B-7
IC8104	B-2	D8304	B-7
IC8313	C-12	D8305	C-6
IC8314	C-10	D8306	B-6
TRANSISTOR		D8307	B-6
		D8308	C-6
Q8301	B-7	D8309	B-6
Q8356	C-7	D8310	B-5
Q8357	D-6	D8311	C-5
Q8358	E-7	D8313	C-5
Q8359	E-6	D8314	B-5
Q8360	E-6	D8315	A-4
DIODE		D8316	B-4
		D8317	B-4
D8101	C-3	D8318	C-4
D8102	C-3	D8319	C-4
D8301	A-4	D8320	A-4
		D8321	B-6
		D8325	A-4

- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

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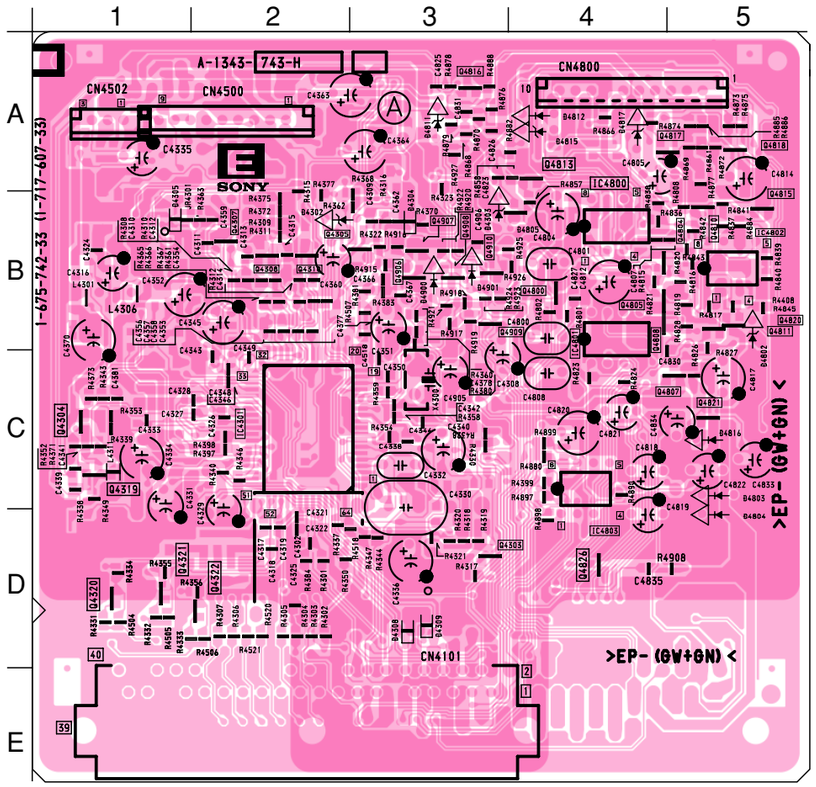
PRINTED WIRING BOARD

E [RGB OUT, DEFLECTION]

A1 [AUDIO DSP]

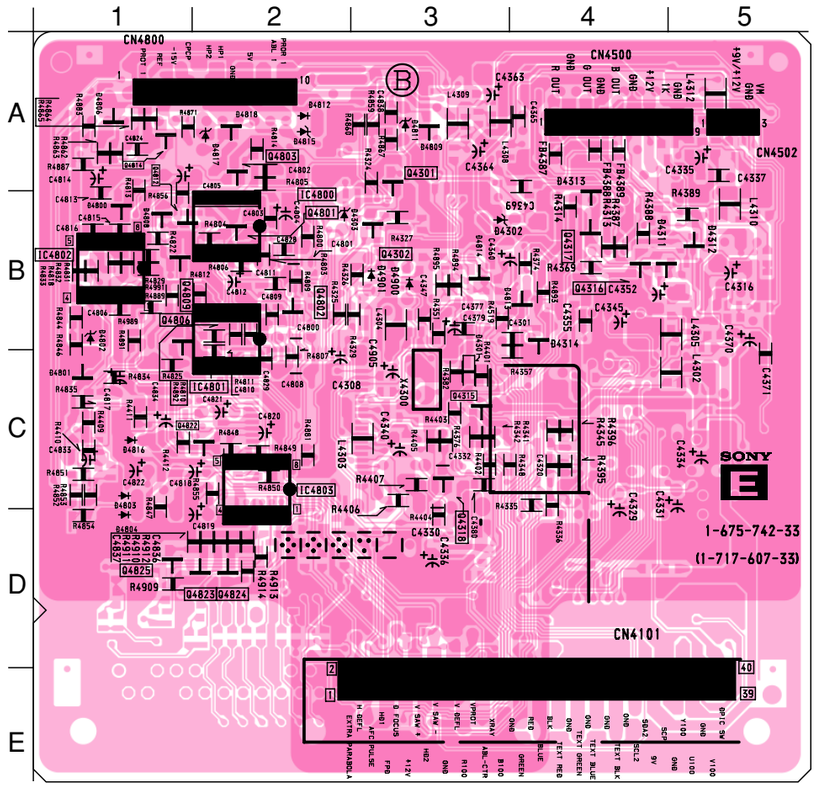
– E Board (Component Side) –



J BOARD (Component Side)

IC		Q4818	A-5
IC4301	C-2	Q4820	B-5
IC4800	A-4	Q4821	C-5
IC4801	C-4	Q4826	D-4
IC4802	B-5	Q4906	B-3
IC4803	D-4	Q4907	B-3
TRANSISTOR		Q4908	B-3
		Q4909	B-3
Q4303	D-3	Q4910	B-3
Q4304	C-1	Q4808	B-4
Q4305	B-2	**DIODE**	
Q4307	B-2		
Q4308	B-2	D4302	B-2
Q4310	B-2	D4303	B-3
Q4319	C-1	D4304	B-3
Q4320	D-1	D4305	B-1
Q4321	D-1	D4308	D-3
Q4322	D-2	D4309	D-3
Q4800	B-4	D4802	C-5
Q4804	B-5	D4803	C-5
Q4805	B-4	D4804	D-5
Q4807	C-5	D4805	B-4
Q4810	B-5	D4811	A-3
Q4811	B-5	D4812	A-4
Q4813	A-4	D4815	A-4
Q4815	B-5	D4816	C-5
Q4816	A-3	D4817	A-4
Q4817	A-4	D4900	B-3
		D4901	B-3

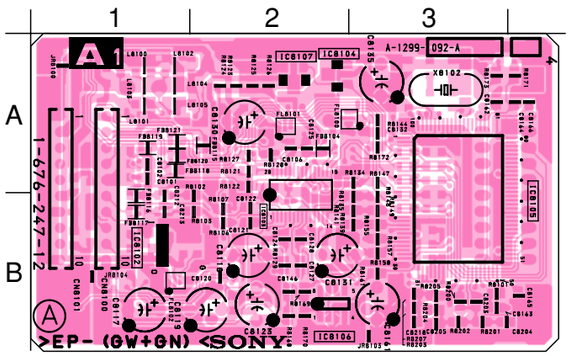
– E Board (Conductor Side) –



J BOARD (Conductor Side)

IC		DIODE	
IC4800	B-2	D4301	C-3
IC4801	C-2	D4302	B-3
IC4802	B-1	D4303	B-2
IC4803	C-2	D4311	B-4
TRANSISTOR		D4312	B-5
		D4313	A-4
Q4301	A-3	D4314	C-4
Q4302	B-3	D4800	B-1
Q4315	C-3	D4801	C-1
Q4316	B-4	D4802	B-1
Q4317	B-4	D4803	C-1
Q4318	D-3	D4804	D-1
Q4801	B-2	D4806	A-1
Q4802	B-2	D4808	B-1
Q4803	A-2	D4809	A-3
Q4806	B-1	D4811	A-3
Q4809	B-1	D4812	A-2
Q4812	A-1	D4813	B-3
Q4814	A-1	D4814	B-3
Q4822	C-1	D4815	A-2
Q4823	D-1	D4816	C-1
Q4824	D-2	D4817	A-2
Q4825	D-1	D4818	A-2
		D4900	B-3
		D4901	B-3

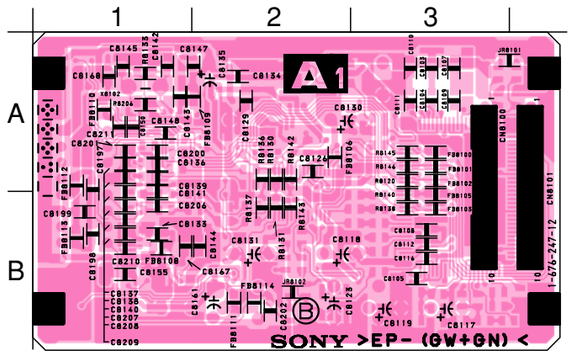
– A1 Board (Component Side) –



A1 BOARD (Component Side)

IC	
IC8102	B-1
IC8104	A-2
IC8105	B-4
IC8106	B-3
IC8108	B-1

– A1 Board (Conductor Side) –



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

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PRINTED WIRING BOARDS

C [CRT DRIVE]

F1 [AC LINE FILTER]

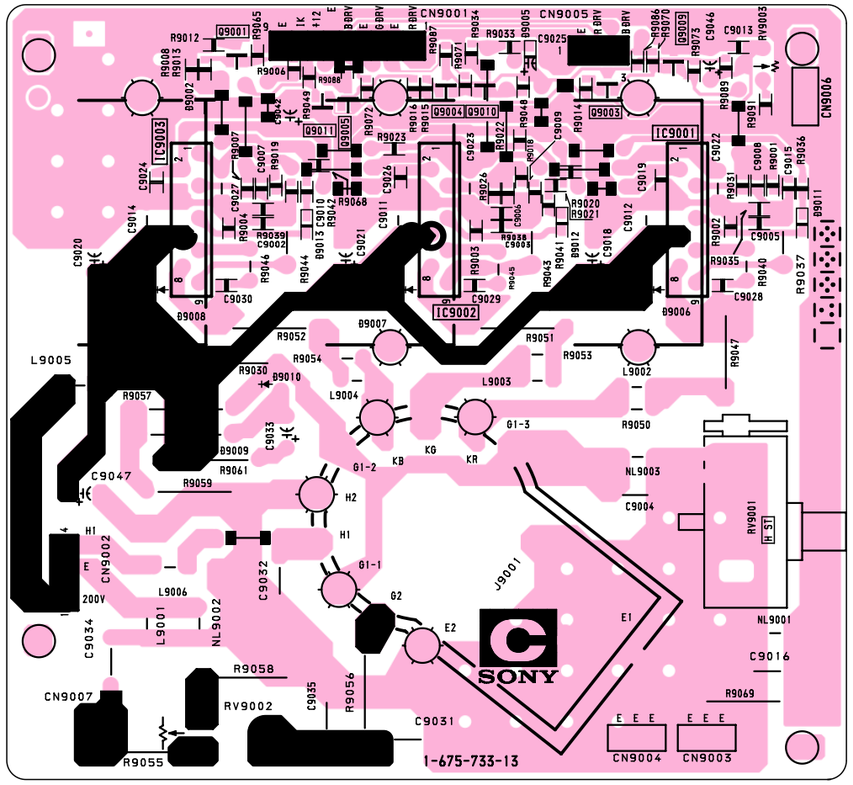
VM [VM DRIVE]

H1 [LED, SIRCS RECEIVER]

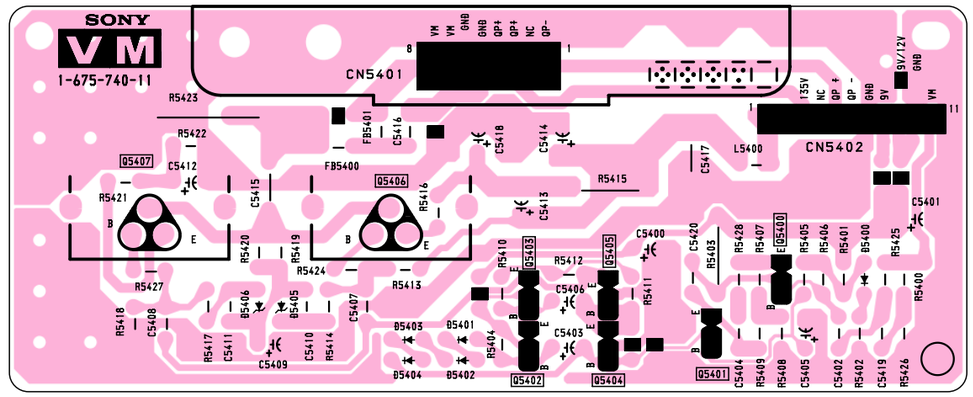
H3 [TOP KEY]

SP [SPEAKER CIRCUIT]

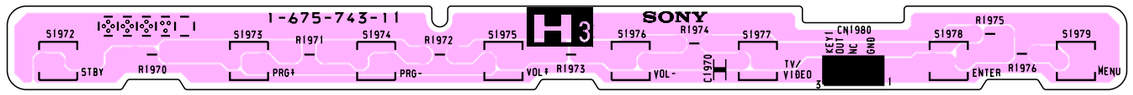
– C Board –



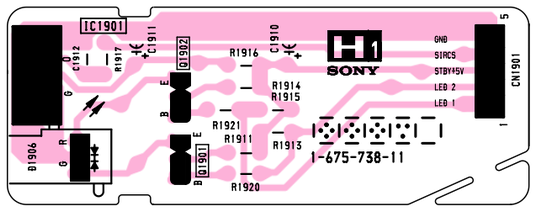
– VM Board –



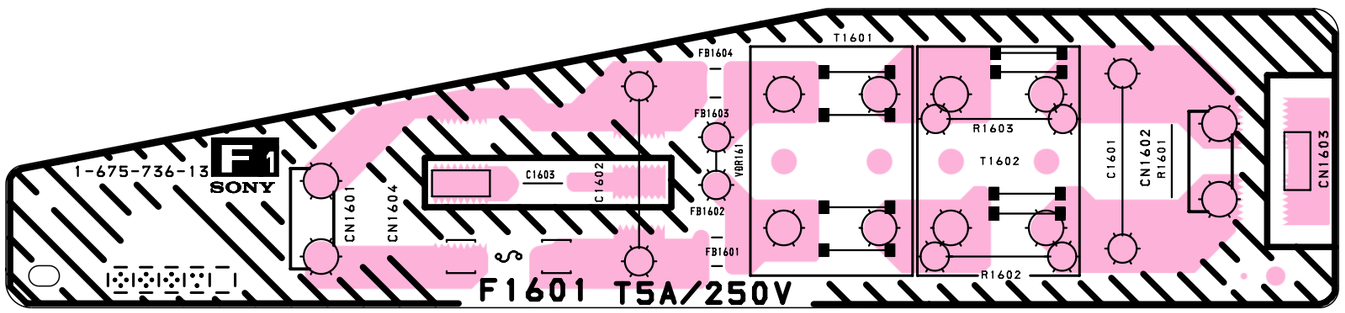
– H3 Board –



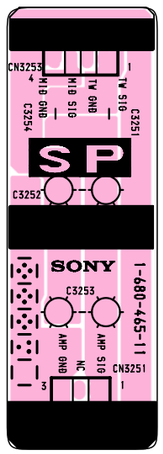
– H1 Board –



– F1 Board –



– SP Board –



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PRINTED WIRING BOARDS

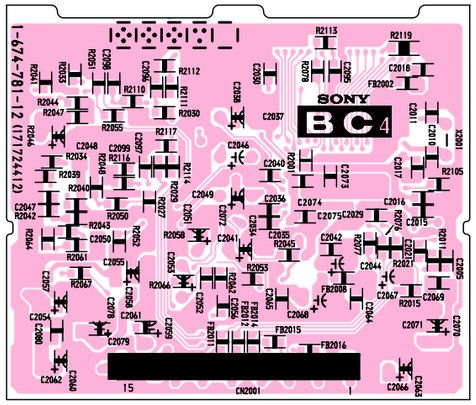
BC4 [Y/C SEP]

DH [MAGNETIC FIELD CORRECTION]

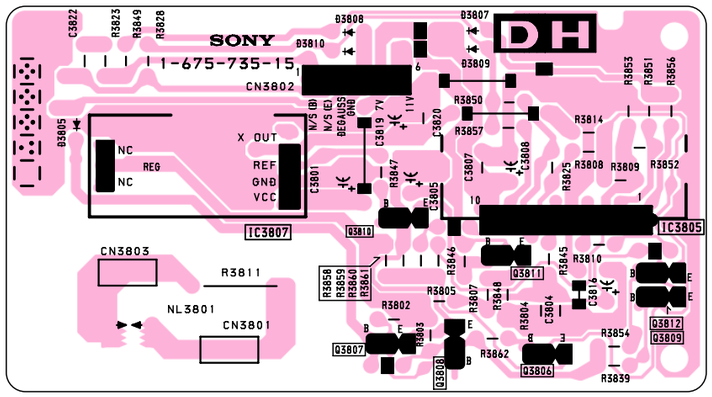
H2 [AV INPUT, PRESET KEY, PHONE OUT]

F2 [AC SWITCH]

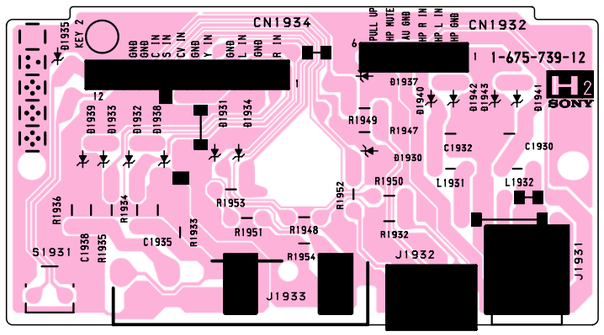
– BC4 Board –



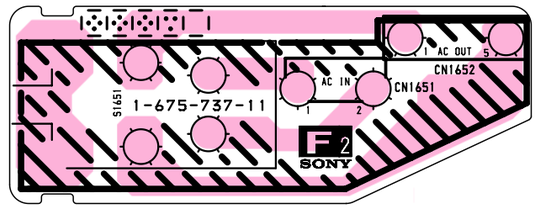
– DH Board –



– H2 Board –

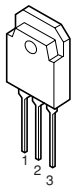
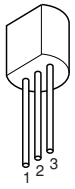
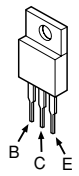
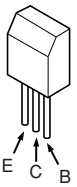
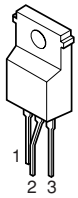
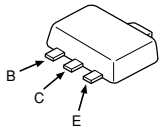


– F2 Board –



7-6. SEMICONDUCTORS

TRANSISTOR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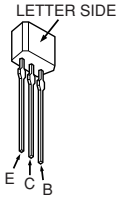	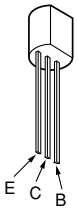	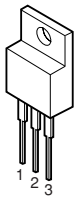	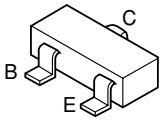	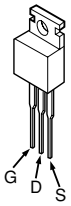	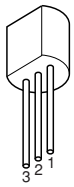
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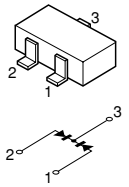
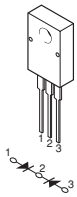
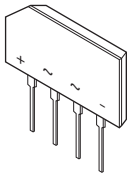
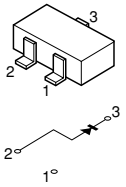
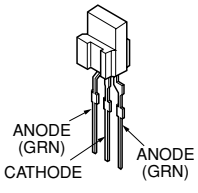
DIODE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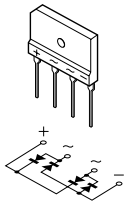	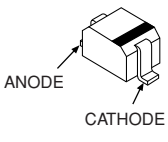	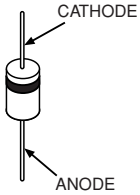		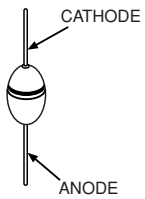	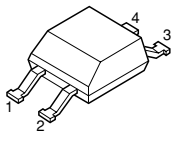
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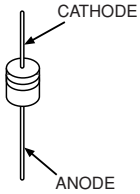

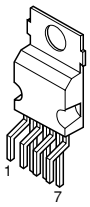

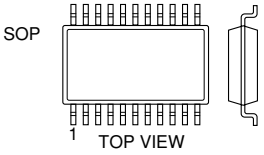

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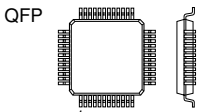

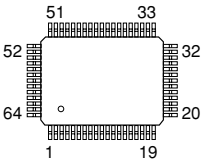

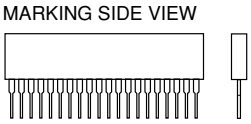

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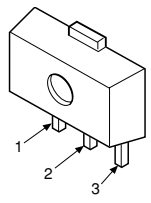

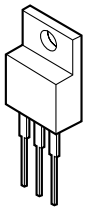

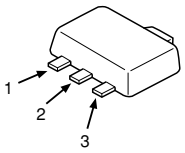

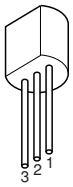

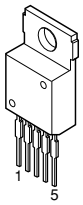

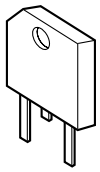

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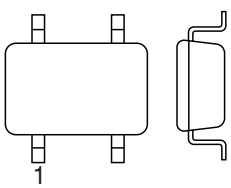

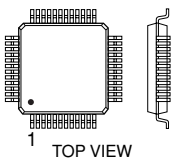

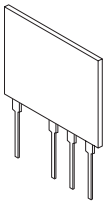

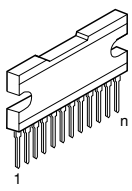

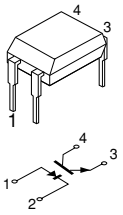

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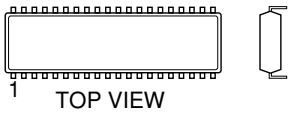
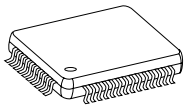
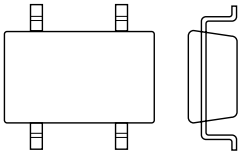
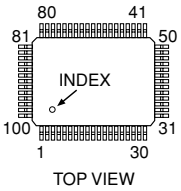
 Dual In-line Package Pin 6~98					
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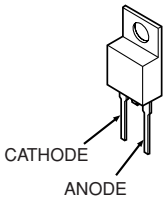
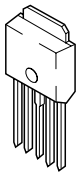
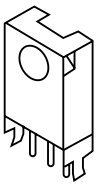
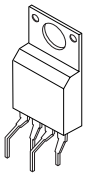
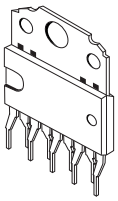
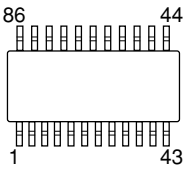
					
D5S4M	PQ3TZ534	SBX1981-51RP	PQ6RD83B	TDA6111Q/N4	MT48LC2M32B2TG

SECTION 8
EXPLODED VIEWS

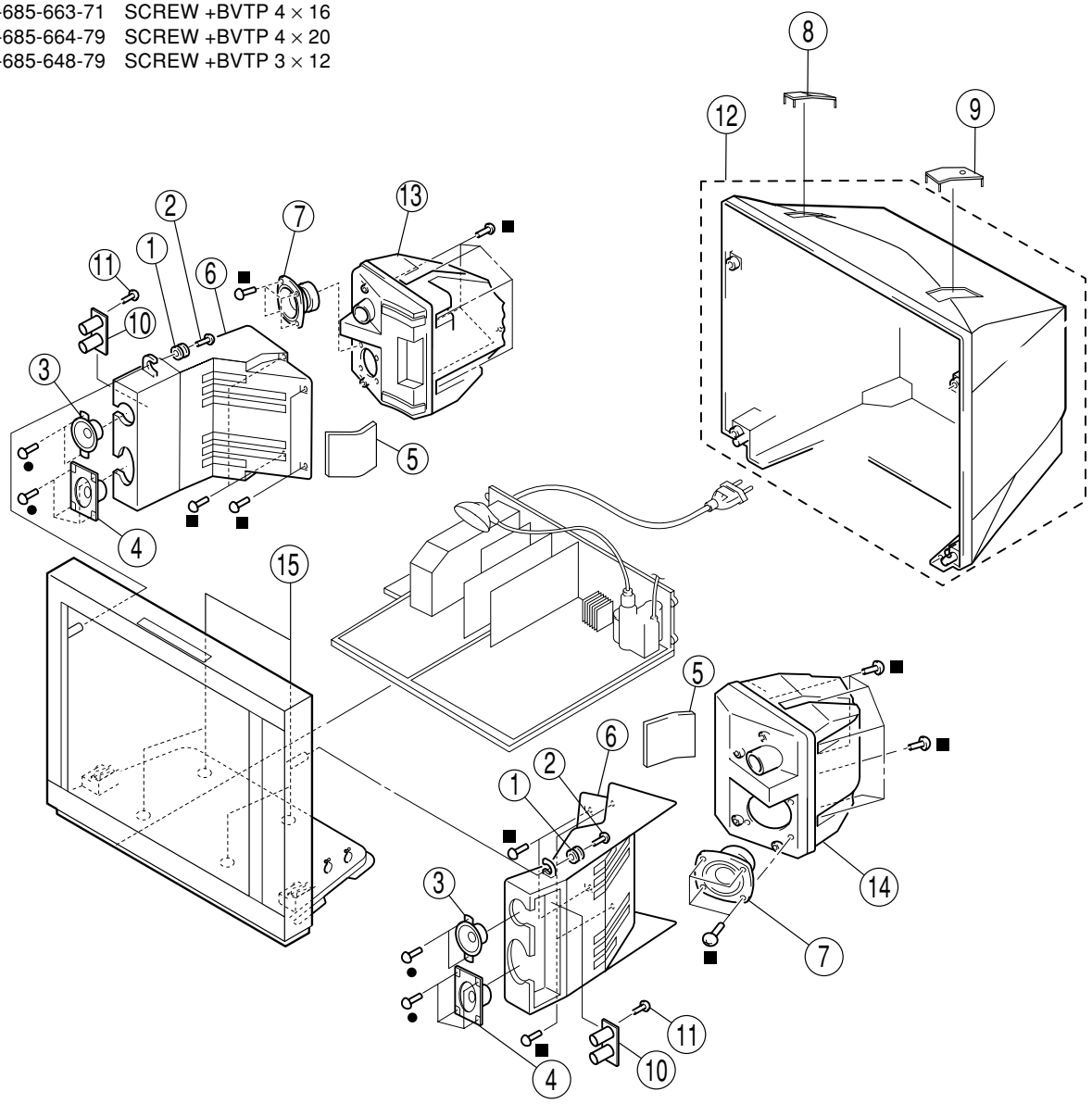
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

8-1. SPEAKER BRACKET

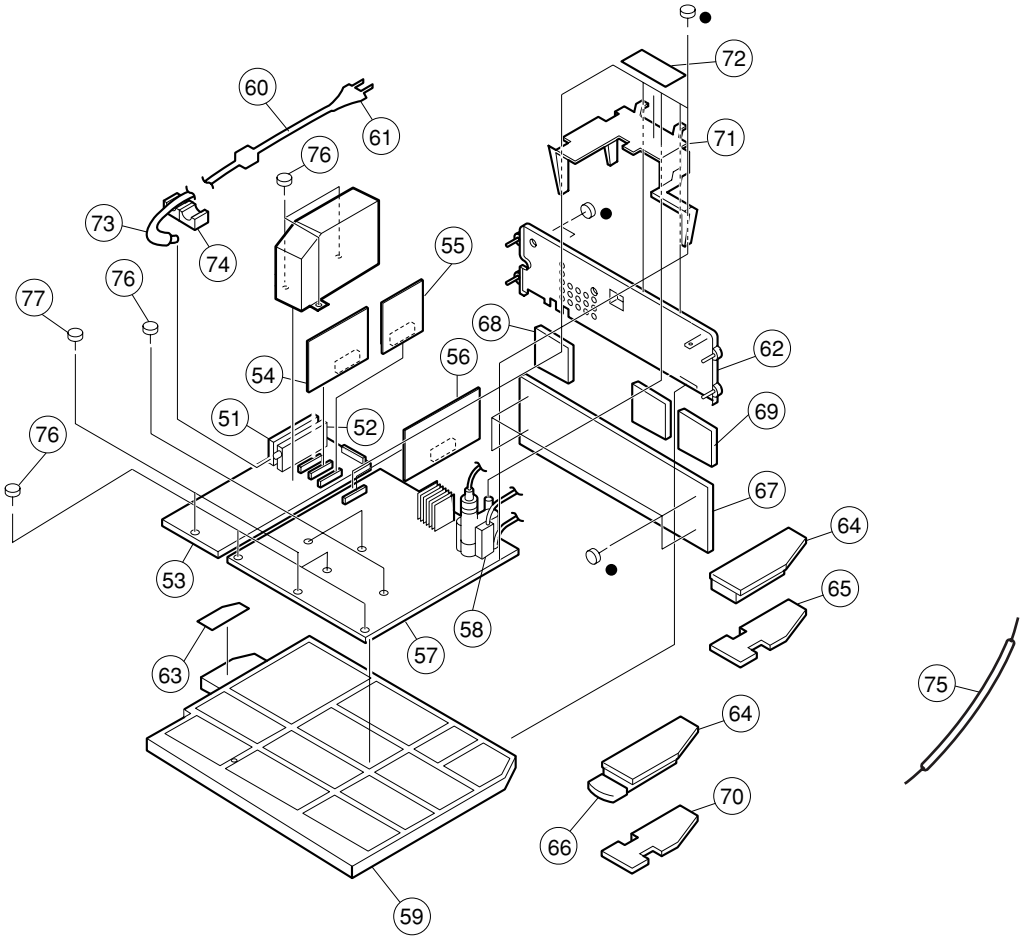
■ : 7-685-663-71 SCREW +BVTP 4 × 16
▲ : 7-685-664-79 SCREW +BVTP 4 × 20
● : 7-685-648-79 SCREW +BVTP 3 × 12



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		4-374-745-11	CUSHION A	
2		4-064-929-02	SCREW, TP + TWH 4 x 25	
3		1-529-940-11	SPEAKER (5 cm)	
4		1-529-939-11	SPEAKER (9 x 5 cm)	
5	*	4-073-084-02	DUCT CUSHION	
6	*	4-079-164-01	DUCT SPEAKER	
7		1-505-473-11	SPEAKER (12 cm)	
8		4-079-337-01	COVER, SCREW (L)	
9		4-079-336-01	COVER, SCREW (R)	
10		A-1391-163-A	SP BOARD MOUNT	
11		4-046-797-01	SCREW (3 x 12), (+) BVTAP	
12		X-4038-430-2	COVER ASSY, REAR	(▲ 10 screws)
13		A-1501-818-A	SP BOX (L) SUB ASSY	
14		A-1501-820-A	SP BOX (R) SUB ASSY	
15		4-081-847-01	FOOT	

8-2. CHASSIS

● : 7-685-648-79 SCREW +BVTP 3 × 12

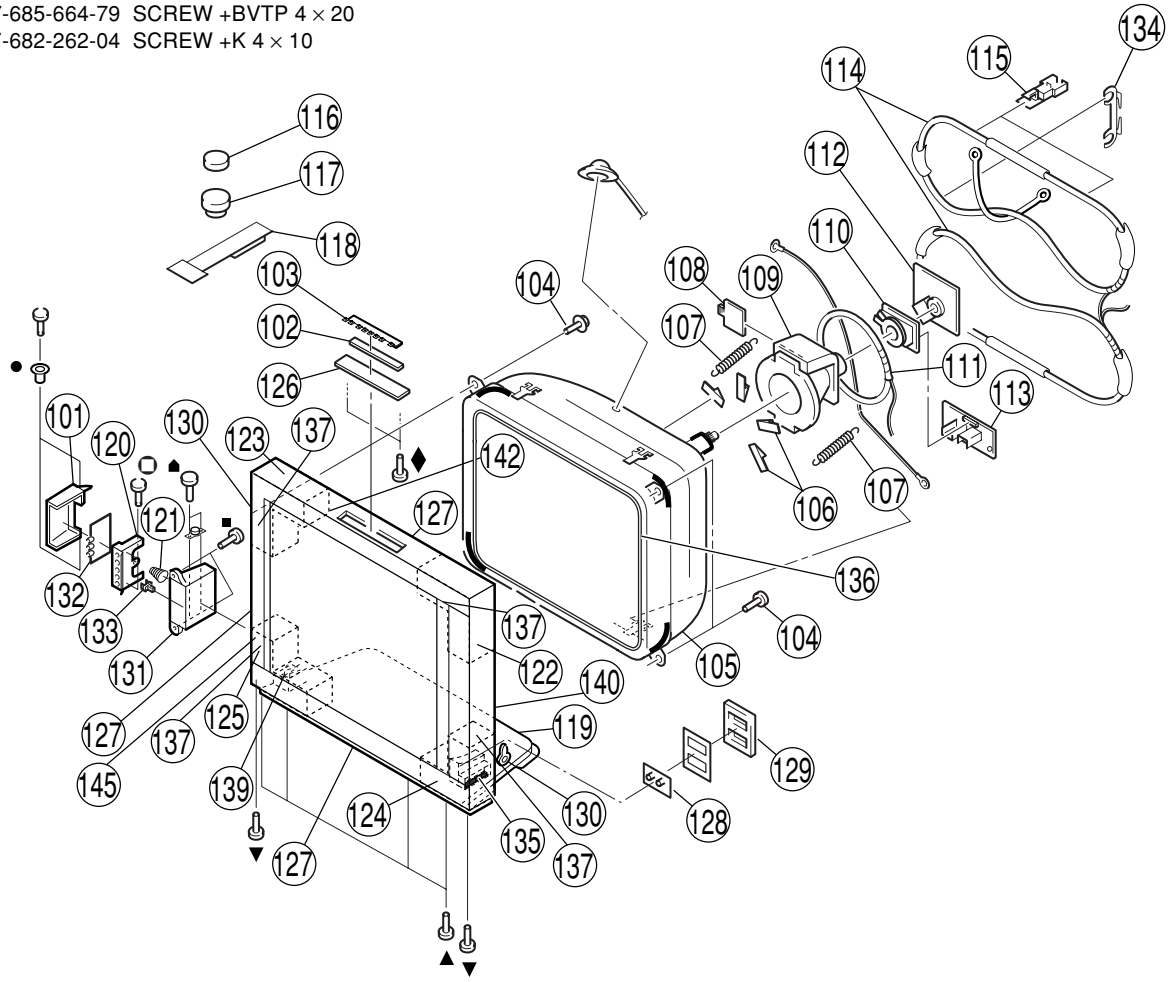


REF. NO.		PART NO.	DESCRIPTION	REMARK
51		8-598-430-50	TUNER, FSS BTF-FA401	
52		8-598-542-30	TUNER, FSS BTF-WA412	
53	*	A-1299-617-A	A BOARD COMPLETE	
54	*	A-1136-251-A	B3 BOARD COMPLETE	
55	*	A-1333-173-A	E BOARD MOUNT	
56	*	A-1333-171-A	D1 BOARD MOUNT	
57	*	A-1348-123-A	D BOARD COMPLETE	
58	⚠	1-453-360-11	TRANSFORMER ASSY, FLYBACK (NX-4601//J1J4)	
59	*	4-071-314-03	BRACKET, MAIN	
60	⚠	4-022-115-01	HOLDER, AC CORD	
61	⚠	1-792-065-11	CORD, FILTER (WITH POWER)	
62	*	4-071-315-02	BRACKET, TERMINAL	
63	*	A-1241-523-A	F1 BOARD MOUNTED	
64	*	4-071-307-03	HOLDER, F2/H1	
65	*	A-1377-035-A	H1 BOARD MOUNT	

REF. NO.		PART NO.	DESCRIPTION	REMARK
66		4-071-305-03	BUTTON, POWER	
67	*	A-1395-042-A	J BOARD COMPLETE	
68	*	A-1299-593-A	A1 BOARD COMPLETE	
69	*	A-1136-252-A	BC4 BOARD COMPLETE	
70	*	A-1241-510-A	F2 BOARD MOUNT	
71	*	4-071-316-02	SUPPORTER, PWB	
72	*	A-1333-172-A	DH BOARD MOUNTED	
73		1-792-458-11	CABLE RF (WITH FERRITE)	
74		1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
75		1-900-255-46	LEAD ASSY, G2	
76		4-302-428-03	SCREW(WASHER HEAD)(+P3 x 12)	
77		4-046-797-01	SCREW(3 x 12),(+)BVTAP	

8-3. PICTURE TUBE

▲: 7-685-103-19 SCREW +P 2 × 5
○: 7-685-152-19 SCREW +P 3 × 25
●: 7-685-648-79 SCREW +BVTP 3 × 12
■: 7-685-663-71 SCREW +BVTP 4 × 16
◆: 7-685-661-14 SCREW +BVTP 4 × 12
▲: 7-685-664-79 SCREW +BVTP 4 × 20
▼: 7-682-262-04 SCREW +K 4 × 10



REF. NO.		PART NO.	DESCRIPTION	REMARK
101		4-071-308-02	DOOR, CONTROL	
102	*	A-1372-730-A	H3 BOARD MOUNTED	
103		4-071-312-03	BUTTON, TOP SW	
104		4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
105	⚠	8-735-090-05	PICTURE TUBE (A90LPW80X)	
106		3-703-961-01	SPACER, DY	
		4-082-357-11	SPACE (DY)	
107	*	4-369-318-61	SPRING, TENSION	
108		2-163-920-01	PLATE, TLH CORRECTION	
109	⚠	1-451-528-12	DEFLECTION YOKE	
110		8-453-007-31	NA324-M3	
111		1-452-896-61	COIL, NA ROTATION (RT200)	
112	*	A-1332-227-A	C BOARD MOUNTED	
113	*	A-1342-625-A	VM BOARD MOUNTED	
114	⚠	1-424-907-11	COIL, DEGAUSSING	
115	*	4-080-511-01	CLIP, DGC	
116		1-452-032-00	MAGNET, DISC	
117		1-452-094-00	CIRCULAR DISC MAGNET B	
118		4-051-734-42	PIECE B(120), CONV. CORRECT	
119	*	4-079-159-01	COVER, FRONT	
120	*	X-4037-516-2	HOLDER ASSY, CONTROL	

REF. NO.		PART NO.	DESCRIPTION	REMARK
121		4-071-323-01	SPRING, CONE	
122	*	4-079-161-02	BRACKET (TR), CRT	
123	*	4-079-160-02	BRACKET (TL), CRT	
124	*	4-079-163-01	BRACKET (BR), CRT	
125	*	4-079-162-01	BRACKET (BL), CRT	
126	*	4-071-311-02	HOLDER, H3	
127		X-4039-368-1	FRAME ASSY	
128	*	4-071-306-01	LIGHT, GUIDE	
129	*	4-072-950-01	BRACKET, LIGHT GUIDE	
130		4-073-080-01	FASTEN	
131	*	4-071-310-04	BRACKET, SIDE	
132	*	A-1377-036-A	H2 BOARD MOUNTED	
133		4-047-464-01	CATCHER, PUSH	
134	*	4-067-087-03	HOLDER(C), DGC	
135	*	4-071-673-01	SHEET, COVER	
136		1-419-844-11	COIL, LANDING CORRECTION	
137		4-072-956-01	SCREW SPECIAL (DIA.8) (+TP 4 X 9)	
138		X-4039-357-1	FRAME SUB ASSY, TOP	
139		X-4038-427-1	FRAME SUB ASSY, BOTTOM	
140		X-4039-358-1	FRAME SUB ASSY, RIGHT	
141		X-4038-429-2	FRAME SUB ASSY, LEFT	

SECTION 9
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF NO.	PART NO.	DESCRIPTION		REMARK	
*	A-1299-617-A	A BOARD COMPLETE			
		**********			
*	1-555-110-00	CABLE, PIN			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C001	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C002	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C004	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C007	1-126-933-11	ELECT	100UF	20.00%	16V
C009	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C010	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C012	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C014	1-126-947-11	ELECT	47UF	20.00%	16V
C015	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C017	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C018	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C019	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C020	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C021	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C028	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C033	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C034	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C101	1-126-964-11	ELECT	10UF	20.00%	50V
C103	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C104	1-126-933-11	ELECT	100UF	20.00%	16V
C106	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C107	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C108	1-126-933-11	ELECT	100UF	20.00%	16V
C109	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C110	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C111	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C112	1-126-933-11	ELECT	100UF	20.00%	16V
C113	1-126-947-11	ELECT	47UF	20.00%	16V
C114	1-126-967-11	ELECT	47UF	20.00%	50V
C301	1-126-767-11	ELECT	1000UF	20.00%	16V
C326	1-126-964-11	ELECT	10UF	20.00%	50V
C1201	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1202	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1203	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1204	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C1205	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C1206	1-126-965-91	ELECT	22UF	20.00%	50V
C1207	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1208	1-126-023-11	ELECT	100UF	20.00%	16V
C1209	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1210	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1211	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
C1212	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1213	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
C1214	1-126-055-11	ELECT	470UF	20.00%	50V
C1215	1-126-055-11	ELECT	470UF	20.00%	50V
C1216	1-126-943-11	ELECT	2200UF	20.00%	25V
C1217	1-126-943-11	ELECT	2200UF	20.00%	25V
C1219	1-126-961-11	ELECT	2.2UF	20.00%	50V
C1220	1-126-961-11	ELECT	2.2UF	20.00%	50V
C1221	1-126-933-11	ELECT	100UF	20.00%	16V
C1222	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1223	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1224	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1225	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1229	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1230	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C1241	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1242	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1243	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1244	1-110-617-51	ELECT	2200UF	20.00%	50V
C1245	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1246	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1247	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1248	1-110-617-51	ELECT	2200UF	20.00%	50V
C1249	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1251	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1252	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1253	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1254	1-136-165-00	FILM	0.1UF	5.00%	50V
C1255	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1256	1-137-194-81	FILM	0.47UF	5.00%	50V
C1258	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1259	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1260	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C1262	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1263	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1264	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1265	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1266	1-136-165-00	FILM	0.1UF	5.00%	50V
C1267	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1268	1-137-194-81	FILM	0.47UF	5.00%	50V
C1270	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1272	1-126-941-11	ELECT	470UF	20.00%	25V
C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V

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REF NO.	PART NO.	DESCRIPTION			REMARK
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C1285	1-126-933-11	ELECT	100UF	20.00%	16V
C1286	1-126-933-11	ELECT	100UF	20.00%	16V
C1287	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1288	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1289	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1290	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1291	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1292	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1297	1-137-194-81	FILM	0.47UF	5.00%	50V
C1298	1-137-194-81	FILM	0.47UF	5.00%	50V
C1301	1-126-933-11	ELECT	100UF	20.00%	16V
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2200	1-126-964-11	ELECT	10UF	20.00%	50V
C2201	1-126-964-11	ELECT	10UF	20.00%	50V
C2202	1-126-964-11	ELECT	10UF	20.00%	50V
C2203	1-126-963-11	ELECT	4.7UF	20.00%	50V
C2204	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C2205	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C2206	1-126-964-11	ELECT	10UF	20.00%	50V
C2209	1-126-968-11	ELECT	100UF	20.00%	50V
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2602	1-126-933-11	ELECT	100UF	20.00%	16V
C2603	1-126-933-11	ELECT	100UF	20.00%	16V
C2605	1-126-935-11	ELECT	470UF	20.00%	10V
C2606	1-164-344-11	CERAMIC CHIP	0.068UF	10.00%	25V
C2608	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C2609	1-126-935-11	ELECT	470UF	20.00%	6.3V
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2611	1-126-934-11	ELECT	220UF	20.00%	10V
C2612	1-126-933-11	ELECT	100UF	20.00%	16V
C2613	1-126-933-11	ELECT	100UF	20.00%	16V
C2614	1-126-935-11	ELECT	470UF	20.00%	10V
C3302	1-126-964-11	ELECT	10UF	20.00%	50V
C3330	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C3331	1-126-933-11	ELECT	100UF	20.00%	16V
C3336	1-126-933-11	ELECT	100UF	20.00%	16V
C3337	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C3338	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3350	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3351	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3352	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3353	1-126-933-11	ELECT	100UF	20.00%	16V
C3354	1-126-967-11	ELECT	47UF	20.00%	50V
C3355	1-126-947-11	ELECT	47UF	20.00%	16V

<CONNECTOR>

CN1100	*	1-560-218-00	PIN, CONNECTOR 7P
CN1108		1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1116		1-695-915-11	TAB (CONTACT)
CN1138	*	1-564-507-11	PLUG, CONNECTOR 4P
CN1140		1-793-494-11	CONNECTOR, BOARD TO BOARD 40P
CN1160	*	1-764-333-11	PLUG, CONNECTOR 10P
CN1162		1-900-903-64	CONNECTOR ASSY 20P
CN1180		1-793-495-11	CONNECTOR, BOARD TO BOARD 50P
CN1190	*	1-564-510-11	PLUG, CONNECTOR 7P
CN1193	*	1-764-333-11	PLUG, CONNECTOR 10P
CN1195	*	1-564-506-11	PLUG, CONNECTOR 3P

<COMPOSITION CIRCUIT BLOCK>

CP1300	1-251-658-31	SPLITTER RF

<DIODE>

D001	8-719-404-50	MA111-TX
D002	8-719-404-50	MA111-TX
D003	8-719-404-50	MA111-TX
D004	8-719-404-50	MA111-TX
D005	8-719-404-50	MA111-TX
D006	8-719-404-50	MA111-TX
D007	8-719-158-18	RD5.6SB3
D013	8-719-158-18	RD5.6SB3
D014	8-719-404-50	MA111-TX
D300	8-719-404-50	MA111-TX
D301	8-719-404-50	MA111-TX
D302	8-719-404-50	MA111-TX
D317	8-719-404-50	MA111-TX
D1205	8-719-158-35	RD9.1S-B
D1208	8-719-404-50	MA111-TX
D1209	8-719-404-50	MA111-TX
D2200	8-719-158-35	RD9.1S-B
D2201	8-719-158-35	RD9.1S-B
D2600	8-719-500-70	D5S4M

<FERRITE BEAD>

FB001	1-414-233-22	FERRITE	0UH
FB002	1-414-233-22	FERRITE	0UH
FB003	1-414-233-22	FERRITE	0UH
FB004	1-414-233-22	FERRITE	0UH
FB005	1-414-233-22	FERRITE	0UH
FB006	1-414-233-22	FERRITE	0UH
FB007	1-414-233-22	FERRITE	0UH
FB008	1-414-233-22	FERRITE	0UH
FB1205	1-410-397-21	FERRITE	1.1UH
FB1206	1-410-397-21	FERRITE	1.1UH
FB1207	1-410-397-21	FERRITE	1.1UH
FB1208	1-410-397-21	FERRITE	1.1UH
FB1300	1-216-295-91	SHORT	0

<FILTER>

FL001	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

IC001	8-752-926-75	IC CXP750096-042Q
IC002	8-759-042-02	S-80743AL-A7-S
IC003	8-759-675-64	M24C08-MN6T(A)
IC004	6-700-149-01	IC M24C04-MN6T(A)
IC1201	8-759-273-12	TDA7315D013TR
IC1203	8-759-553-45	TDA7481
IC1204	8-759-553-45	TDA7481
IC1205	8-759-100-96	UPC4558G2

A

REF NO.	PART NO.	DESCRIPTION	REMARK
IC2200	8-759-745-64	NJM4560M	
IC2600	8-759-394-36	BA09T	
IC2601	8-759-450-47	BA05T	
IC2603	8-759-640-19	PQ1CG2032FZ	
IC2604	8-759-644-37	PQ5EV3	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	SHORT 0	
JR002	1-216-295-91	SHORT 0	
JR107	1-216-295-91	SHORT 0	
JR2601	1-216-295-91	SHORT 0	
		<COIL>	
L001	1-414-856-11	INDUCTOR 10UH	
L002	1-414-856-11	INDUCTOR 10UH	
L003	1-414-751-11	INDUCTOR 1UH	
L005	1-414-856-11	INDUCTOR 10UH	
L101	1-414-856-11	INDUCTOR 10UH	
L102	1-414-856-11	INDUCTOR 10UH	
L103	1-414-856-11	INDUCTOR 10UH	
L104	1-414-856-11	INDUCTOR 10UH	
L105	1-414-856-11	INDUCTOR 10UH	
L1201	1-414-187-11	INDUCTOR 47UH	
L1202	1-416-857-11	INDUCTOR 65UH	
L1203	1-416-857-11	INDUCTOR 65UH	
L1204	1-416-857-11	INDUCTOR 65UH	
L1205	1-416-857-11	INDUCTOR 65UH	
L1300	1-414-856-11	INDUCTOR 10UH	
L2600	1-419-249-11	INDUCTOR 15UH	
L2601	1-419-249-11	INDUCTOR 15UH	
L2602	1-412-525-31	INDUCTOR 10UH	
L2603	1-412-525-31	INDUCTOR 10UH	
L3302	1-414-856-11	INDUCTOR 10UH	
L3303	1-414-856-11	INDUCTOR 10UH	
L3304	1-414-856-11	INDUCTOR 10UH	
L3305	1-414-856-11	INDUCTOR 10UH	
L3306	1-414-856-11	INDUCTOR 10UH	
		<IC LINK>	
PS1201	1-532-686-21	LINK, IC 2.7A/150V	
PS1202	1-532-686-21	LINK, IC 2.7A/150V	
PS1203	1-532-686-21	LINK, IC 2.7A/150V	
PS1204	1-532-686-21	LINK, IC 2.7A/150V	
		<TRANSISTOR>	
Q001	8-729-026-49	2SA1037AK-T146-R	
Q002	8-729-230-49	2SC2712-YG	
Q003	8-729-230-49	2SC2712-YG	
Q004	8-729-230-49	2SC2712-YG	
Q101	8-729-026-49	2SA1037AK-T146-R	
Q102	8-729-230-49	2SC2712-YG	
Q301	8-729-026-49	2SA1037AK-T146-R	
Q313	8-729-230-49	2SC2712-YG	
Q1205	1-801-806-11	TR DTC144EKA	
Q1206	8-729-230-49	2SC2712-YG	
Q1207	8-729-230-49	2SC2712-YG	
Q1209	8-729-230-49	2SC2712-YG	
Q1210	8-729-230-49	2SC2712-YG	
Q1211	8-729-026-49	2SA1037AK-T146-R	
Q2200	1-801-806-11	TR DTC144EKA	
Q2201	1-801-806-11	TR DTC144EKA	
Q3300	8-729-026-49	2SA1037AK-T146-R	
		<RESISTOR>	
R001	1-216-033-00	RES-CHIP 220 5% 1/10W	
R002	1-216-033-00	RES-CHIP 220 5% 1/10W	
R003	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R004	1-216-295-91	SHORT 0	
R005	1-216-295-91	SHORT 0	
R006	1-216-033-00	RES-CHIP 220 5% 1/10W	
R007	1-216-033-00	RES-CHIP 220 5% 1/10W	
R008	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R009	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R010	1-216-061-91	RES-CHIP 3.3K 5% 1/10W	
R011	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R012	1-216-061-91	RES-CHIP 3.3K 5% 1/10W	
R013	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R014	1-216-025-11	RES-CHIP 100 5% 1/10W	
R015	1-216-025-11	RES-CHIP 100 5% 1/10W	
R016	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R017	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R018	1-216-045-00	RES-CHIP 680 5% 1/10W	
R020	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R021	1-216-295-91	SHORT 0	
R022	1-216-033-00	RES-CHIP 220 5% 1/10W	
R023	1-216-025-11	RES-CHIP 100 5% 1/10W	
R024	1-216-063-91	RES-CHIP 3.9K 5% 1/10W	
R025	1-216-033-00	RES-CHIP 220 5% 1/10W	
R026	1-216-033-00	RES-CHIP 220 5% 1/10W	
R027	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R028	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R029	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R030	1-216-025-11	RES-CHIP 100 5% 1/10W	
R031	1-216-033-00	RES-CHIP 220 5% 1/10W	
R032	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R033	1-216-033-00	RES-CHIP 220 5% 1/10W	
R034	1-216-295-91	SHORT 0	
R035	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R036	1-216-083-00	RES-CHIP 27K 5% 1/10W	
R037	1-216-083-00	RES-CHIP 27K 5% 1/10W	
R038	1-216-045-00	RES-CHIP 680 5% 1/10W	
R039	1-216-025-11	RES-CHIP 100 5% 1/10W	
R040	1-216-033-00	RES-CHIP 220 5% 1/10W	
R041	1-216-025-11	RES-CHIP 100 5% 1/10W	
R042	1-216-295-91	SHORT 0	
R043	1-216-025-11	RES-CHIP 100 5% 1/10W	
R044	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R045	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R046	1-216-033-00	RES-CHIP 220 5% 1/10W	
R047	1-216-033-00	RES-CHIP 220 5% 1/10W	
R048	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R049	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R050	1-216-085-91	RES-CHIP 33K 5% 1/10W	
R051	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R052	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R053	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R054	1-216-033-00	RES-CHIP 220 5% 1/10W	
R055	1-216-295-91	SHORT 0	
R056	1-216-295-91	SHORT 0	

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R057	1-216-295-91	SHORT	0		
R058	1-216-295-91	SHORT	0		
R059	1-216-033-00	RES-CHIP	220	5%	1/10W
R060	1-216-033-00	RES-CHIP	220	5%	1/10W
R062	1-216-049-11	RES-CHIP	1K	5%	1/10W
R065	1-216-045-00	RES-CHIP	680	5%	1/10W
R066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R067	1-216-073-91	RES-CHIP	10K	5%	1/10W
R068	1-216-073-91	RES-CHIP	10K	5%	1/10W
R069	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R070	1-216-033-00	RES-CHIP	220	5%	1/10W
R071	1-216-025-11	RES-CHIP	100	5%	1/10W
R072	1-216-025-11	RES-CHIP	100	5%	1/10W
R073	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R074	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R076	1-216-295-91	SHORT	0		
R077	1-216-025-11	RES-CHIP	100	5%	1/10W
R078	1-216-295-91	SHORT	0		
R079	1-216-025-11	RES-CHIP	100	5%	1/10W
R080	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R081	1-216-025-11	RES-CHIP	100	5%	1/10W
R082	1-216-041-00	RES-CHIP	470	5%	1/10W
R083	1-216-049-11	RES-CHIP	1K	5%	1/10W
R084	1-216-049-11	RES-CHIP	1K	5%	1/10W
R085	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R086	1-216-073-91	RES-CHIP	10K	5%	1/10W
R087	1-216-033-00	RES-CHIP	220	5%	1/10W
R089	1-216-049-11	RES-CHIP	1K	5%	1/10W
R090	1-216-295-91	SHORT	0		
R091	1-216-295-91	SHORT	0		
R092	1-216-033-00	RES-CHIP	220	5%	1/10W
R093	1-216-073-91	RES-CHIP	10K	5%	1/10W
R094	1-216-073-91	RES-CHIP	10K	5%	1/10W
R100	1-216-025-11	RES-CHIP	100	5%	1/10W
R104	1-216-025-11	RES-CHIP	100	5%	1/10W
R105	1-216-295-91	SHORT	0		
R106	1-216-049-11	RES-CHIP	1K	5%	1/10W
R107	1-216-073-91	RES-CHIP	10K	5%	1/10W
R108	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R109	1-216-041-00	RES-CHIP	470	5%	1/10W
R110	1-216-043-91	RES-CHIP	560	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W
R112	1-216-025-11	RES-CHIP	100	5%	1/10W
R114	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R116	1-216-025-11	RES-CHIP	100	5%	1/10W
R117	1-216-025-11	RES-CHIP	100	5%	1/10W
R118	1-216-025-11	RES-CHIP	100	5%	1/10W
R301	1-216-113-00	RES-CHIP	470K	5%	1/10W
R302	1-216-089-91	RES-CHIP	47K	5%	1/10W
R303	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1201	1-216-033-00	RES-CHIP	220	5%	1/10W
R1202	1-216-033-00	RES-CHIP	220	5%	1/10W
R1203	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1204	1-216-079-00	RES-CHIP	18K	5%	1/10W
R1205	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1206	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1207	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1208	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1236	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1237	1-216-085-91	RES-CHIP	33K	5%	1/10W
R1238	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1239	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R1240	1-216-085-91	RES-CHIP	33K	5%	1/10W
R1241	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1242	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1244	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1246	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R1247	1-216-085-91	RES-CHIP	33K	5%	1/10W
R1248	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1249	1-216-025-11	RES-CHIP	100	5%	1/10W
R1250	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1252	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1253	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1254	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1255	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1256	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1257	1-216-025-11	RES-CHIP	100	5%	1/10W
R1258	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1259	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1260	1-216-037-00	RES-CHIP	330	5%	1/10W
R1261	1-216-037-00	RES-CHIP	330	5%	1/10W
R1264	1-216-041-00	RES-CHIP	470	5%	1/10W
R1265	1-216-041-00	RES-CHIP	470	5%	1/10W
R1266	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1267	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1269	1-216-025-11	RES-CHIP	100	5%	1/10W
R1270	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1271	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1272	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1273	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1275	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1276	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1277	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1280	1-216-037-00	RES-CHIP	330	5%	1/10W
R1281	1-216-037-00	RES-CHIP	330	5%	1/10W
R1283	1-216-295-91	SHORT	0		
R1284	1-216-295-91	SHORT	0		
R1286	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1287	1-216-037-00	RES-CHIP	330	5%	1/10W
R1288	1-216-037-00	RES-CHIP	330	5%	1/10W
R1289	1-216-037-00	RES-CHIP	330	5%	1/10W
R1290	1-216-037-00	RES-CHIP	330	5%	1/10W
R2200	1-216-021-00	RES-CHIP	68	5%	1/10W
R2201	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2203	1-216-021-00	RES-CHIP	68	5%	1/10W
R2204	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2205	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2206	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2207	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R2208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2209	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2210	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2211	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2212	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2214	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2217	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2600	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R2601	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R2602	1-208-781-11	METAL CHIP	910	0.5%	1/10W
R2603	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R2604	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R3300	1-216-043-91	RES-CHIP	560	5%	1/10W
R3320	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3323	1-216-025-11	RES-CHIP	100	5%	1/10W
R3334	1-216-025-11	RES-CHIP	100	5%	1/10W
R3374	1-216-295-91	SHORT	0		
		<VARIABLE RESISTOR>			
RV3300	1-238-597-11	RES, ADJ, CARBON 1K			
		<TUNER>			
TU101	8-598-542-30	TUNER, FSS BTF-WA412			
TU3301	8-598-430-50	TUNER, FSS BTF-FA401			
		<CRYSTAL>			
X001	1-567-928-11	VIBLATOR, CERAMIC			

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* A-1299-593-A A1 BOARD COMPLETE
****

3-350-679-01 WASHER, FIBER

<CAPACITOR>

C8103	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8104	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8105	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8106	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8107	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8109	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8110	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8111	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8112	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C8116	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C8117	1-126-382-11	ELECT	100UF	20.00%	16V
C8118	1-127-532-11	ELECT	47UF	20.00%	6.3V
C8119	1-126-795-11	ELECT	10UF	20.00%	25V
C8120	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8121	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8122	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8123	1-127-532-11	ELECT	47UF	20.00%	6.3V
C8124	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8125	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8126	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8129	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8130	1-126-382-11	ELECT	100UF	20.00%	16V
C8131	1-126-382-11	ELECT	100UF	20.00%	16V
C8132	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8133	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8134	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8135	1-126-382-11	ELECT	100UF	20.00%	16V
C8136	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8137	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8138	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8139	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8140	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8141	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8142	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C8143	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8144	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8145	1-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
C8146	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8147	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8150	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8155	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8161	1-127-532-11	ELECT	47UF	20.00%	6.3V
C8162	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C8163	1-216-295-91	SHORT	0		
C8166	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8167	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8168	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8197	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8198	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8199	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8200	1-216-295-91	SHORT	0		
C8201	1-216-295-91	SHORT	0		
C8202	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8203	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8204	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8205	1-163-253-11	CERAMIC CHIP	120PF	5.00%	50V
C8206	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8207	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8208	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8209	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8210	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8211	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8212	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8213	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8218	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V

<CONNECTOR>

CN8100	1-793-867-11	PIN, CONNECTOR (PC BORAD) 10P
CN8101	1-793-867-11	PIN, CONNECTOR (PC BORAD) 10P

<FERRITE BEAD>

FB8100	1-216-295-91	SHORT	0
FB8101	1-216-295-91	SHORT	0
FB8101	1-414-598-11	FERRITE	0UH
FB8102	1-216-295-91	SHORT	0
FB8103	1-216-295-91	SHORT	0
FB8104	1-414-598-11	FERRITE	0UH
FB8105	1-216-295-91	SHORT	0
FB8106	1-414-598-11	FERRITE	0UH
FB8108	1-414-598-11	FERRITE	0UH
FB8109	1-414-598-11	FERRITE	0UH
FB8110	1-414-598-11	FERRITE	0UH
FB8111	1-414-598-11	FERRITE	0UH
FB8112	1-414-598-11	FERRITE	0UH
FB8113	1-414-598-11	FERRITE	0UH
FB8114	1-414-598-11	FERRITE	0UH

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REF NO.	PART NO.	DESCRIPTION		REMARK
FB8115	1-414-598-11	FERRITE	0UH	
FB8116	1-414-598-11	FERRITE	0UH	
FB8117	1-414-598-11	FERRITE	0UH	
FB8118	1-414-598-11	FERRITE	0UH	
FB8119	1-414-598-11	FERRITE	0UH	
FB8120	1-414-598-11	FERRITE	0UH	
FB8121	1-414-598-11	FERRITE	0UH	
		<FILTER>		
FL8100	1-234-177-21	FILTER, CHIP EMI		
FL8101	1-234-177-21	FILTER, CHIP EMI		
FL8102	1-234-177-21	FILTER, CHIP EMI		
		<IC>		
IC8102	8-759-576-72	LF50CDT-TR		
IC8103	8-759-579-68	AK4524		
IC8104	8-759-542-87	S-80827ANUP-EDQ		
IC8105	8-759-833-26	IC TC9446F-011		
IC8106	8-759-242-70	TC7WU04F		
IC8107	8-759-459-69	S-80743AN-D7		
		<CHIP CONDUCTOR>		
JR8102	1-216-295-91	SHORT	0	
JR8103	1-216-295-91	SHORT	0	
		<COIL>		
L8100	1-412-026-11	INDUCTOR	1UH	
L8101	1-412-026-11	INDUCTOR	1UH	
L8102	1-412-026-11	INDUCTOR	1UH	
L8103	1-412-026-11	INDUCTOR	1UH	
L8104	1-412-026-11	INDUCTOR	1UH	
L8105	1-412-026-11	INDUCTOR	1UH	
		<RESISTOR>		
R8101	1-216-022-00	RES-CHIP	75	5% 1/10W
R8101	1-216-033-00	RES-CHIP	220	5% 1/10W
R8102	1-216-061-91	RES-CHIP	3.3K	5% 1/10W
R8103	1-216-061-91	RES-CHIP	3.3K	5% 1/10W
R8106	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R8107	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R8120	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8121	1-216-025-11	RES-CHIP	100	5% 1/10W
R8122	1-216-025-11	RES-CHIP	100	5% 1/10W
R8123	1-216-009-91	RES-CHIP	22	5% 1/10W
R8124	1-216-009-91	RES-CHIP	22	5% 1/10W
R8125	1-216-009-91	RES-CHIP	22	5% 1/10W
R8126	1-216-009-91	RES-CHIP	22	5% 1/10W
R8127	1-216-025-11	RES-CHIP	100	5% 1/10W
R8128	1-216-025-11	RES-CHIP	100	5% 1/10W
R8129	1-216-009-91	RES-CHIP	22	5% 1/10W
R8131	1-216-295-91	SHORT	0	
R8133	1-216-129-00	RES-CHIP	2.2M	5% 1/10W
R8134	1-216-295-91	SHORT	0	
R8135	1-216-295-91	SHORT	0	
R8137	1-216-295-91	SHORT	0	
R8138	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8139	1-216-037-00	RES-CHIP	330	5% 1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK
R8140	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8141	1-216-295-91	SHORT	0	
R8143	1-216-295-91	SHORT	0	
R8144	1-216-025-11	RES-CHIP	100	5% 1/10W
R8145	1-216-033-00	RES-CHIP	220	5% 1/10W
R8146	1-216-033-00	RES-CHIP	220	5% 1/10W
R8147	1-216-295-91	SHORT	0	
R8148	1-216-295-91	SHORT	0	
R8149	1-216-037-00	RES-CHIP	330	5% 1/10W
R8155	1-216-295-91	SHORT	0	
R8157	1-216-037-00	RES-CHIP	330	5% 1/10W
R8158	1-216-037-00	RES-CHIP	330	5% 1/10W
R8161	1-216-025-11	RES-CHIP	100	5% 1/10W
R8168	1-216-025-11	RES-CHIP	100	5% 1/10W
R8169	1-216-097-11	RES-CHIP	100K	5% 1/10W
R8170	1-216-121-11	RES-CHIP	1M	5% 1/10W
R8171	1-216-025-11	RES-CHIP	100	5% 1/10W
R8172	1-216-025-11	RES-CHIP	100	5% 1/10W
R8173	1-216-025-11	RES-CHIP	100	5% 1/10W
R8200	1-216-073-91	RES-CHIP	10K	5% 1/10W
R8201	1-216-025-11	RES-CHIP	100	5% 1/10W
R8202	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R8203	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R8204	1-216-073-91	RES-CHIP	10K	5% 1/10W
R8205	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R8206	1-216-049-11	RES-CHIP	1K	5% 1/10W
R8207	1-216-077-91	RES-CHIP	15K	5% 1/10W
		<CRYSTAL>		
X8102	1-781-041-11	VIBRATOR, CRYSTAL		

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* A-1136-251-A B3 BOARD COMPLETE
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		<CAPACITOR>			
C333	1-216-295-91	SHORT	0		
C368	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C369	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C372	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C373	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C374	1-126-603-11	ELECT CHIP	4.7UF	20.00%	35V
C375	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C376	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C377	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C378	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C501	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C502	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C503	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C505	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C507	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C509	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C510	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C511	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C512	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C514	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C515	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C516	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C517	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C518	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C520	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C521	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C522	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C523	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C524	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C525	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C529	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C531	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C533	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C535	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C536	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C537	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C538	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C539	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C542	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C543	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C545	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C546	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C548	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C549	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C550	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C551	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C554	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C555	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C556	1-126-392-11	ELECT CHIP	100UF	20.00%	6.3V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C559	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C560	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C601	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C602	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C616	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C617	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C618	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C619	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C626	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C632	1-126-206-11	ELECT CHIP	100UF	20.00%	6.3V
C633	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C643	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C644	1-126-398-11	ELECT CHIP	4.7UF	20.00%	35V
C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C801	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C803	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C804	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C806	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C807	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C808	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C809	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C810	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C812	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C814	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C815	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C816	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C817	1-163-229-11	CERAMIC CHIP	12PF	5.00%	50V
C818	1-163-229-11	CERAMIC CHIP	12PF	5.00%	50V
C819	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C820	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C821	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C822	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C823	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C824	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C827	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C829	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C834	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C835	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C839	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C840	1-126-206-11	ELECT CHIP	100UF	20.00%	6.3V
C841	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C842	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C843	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C844	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C848	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C849	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C850	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C851	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C853	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C854	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C901	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C902	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C903	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B3

REF NO.	PART NO.	DESCRIPTION		REMARK	
C904	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C905	1-109-982-11	CERAMIC CHIP	1UF	10.00%	10V
C906	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C907	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C908	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C909	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C910	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C913	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C914	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C950	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C954	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
		<CONNECTOR>			
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P			
		<DIODE>			
D501	8-719-056-77	UDZ-TE-17-3.9B			
D601	8-719-404-50	MA111-TX			
		<FERRITE BEAD>			
FB501	1-414-813-11	FERRITE	0UH		
FB502	1-414-813-11	FERRITE	0UH		
FB503	1-414-813-11	FERRITE	0UH		
FB504	1-414-813-11	FERRITE	0UH		
FB601	1-414-553-11	FERRITE	0UH		
FB801	1-414-553-11	FERRITE	0UH		
FB802	1-414-553-11	FERRITE	0UH		
		<FILTER>			
FL306	1-239-558-11	FILTER, CHIP EMI			
FL501	1-233-877-11	FILTER, LOW PASS			
FL502	1-233-504-21	FILTER, LOW PASS			
FL503	1-233-504-21	FILTER, LOW PASS			
FL504	1-234-177-21	FILTER, CHIP EMI			
FL505	1-234-177-21	FILTER, CHIP EMI			
FL506	1-234-177-21	FILTER, CHIP EMI			
FL508	1-234-177-21	FILTER, CHIP EMI			
FL509	1-234-177-21	FILTER, CHIP EMI			
FL510	1-234-177-21	FILTER, CHIP EMI			
FL511	1-234-177-21	FILTER, CHIP EMI			
FL512	1-234-177-21	FILTER, CHIP EMI			
FL601	1-234-177-21	FILTER, CHIP EMI			
FL602	1-234-177-21	FILTER, CHIP EMI			
FL603	1-234-177-21	FILTER, CHIP EMI			
FL606	1-239-560-11	FILTER, CHIP EMI			
FL801	1-234-177-21	FILTER, CHIP EMI			
FL802	1-234-177-21	FILTER, CHIP EMI			
FL803	1-234-177-21	FILTER, CHIP EMI			
FL804	1-234-177-21	FILTER, CHIP EMI			
FL806	1-234-177-21	FILTER, CHIP EMI			
FL807	1-234-177-21	FILTER, CHIP EMI			
FL808	1-234-177-21	FILTER, CHIP EMI			
FL901	1-233-878-11	FILTER, LOW PASS			
FL902	1-233-876-11	FILTER, LOW PASS			
FL903	1-233-876-11	FILTER, LOW PASS			
FL904	1-234-177-21	FILTER, CHIP EMI			
FL905	1-234-177-21	FILTER, CHIP EMI			
FL906	1-234-177-21	FILTER, CHIP EMI			
FL907	1-234-177-21	FILTER, CHIP EMI			

REF NO.		PART NO.	DESCRIPTION	REMARK
			<IC>	
IC313		8-759-669-75	TLC2932IPWR	
IC314		8-759-525-10	TC7SET08F(TE85L)	
IC315		8-759-525-10	TC7SET08F(TE85L)	
IC316		8-759-525-10	TC7SET08F(TE85L)	
IC501		8-759-447-90	TLC5733AIPM	
IC504		8-759-669-78	TLC2933IPWR-12	
IC505		8-759-640-16	TC7SET04F(TE85R	
IC506		8-759-640-16	TC7SET04F(TE85R	
IC601		8-752-398-47	CXD2090Q	
IC602		8-759-836-37	IC MT48LC1M16A1TG-6S	
IC603	⚠	8-759-669-75	TLC2932IPWR	
IC604		8-752-072-94	CXA1875AM-T4	
IC801		8-759-672-57	CXD9509AQ	
IC802		8-759-677-37	MT48LC2M32B2TG	
IC803		8-759-460-29	PST9120NL	
IC901		8-752-367-59	CXD2309Q	
IC902		8-759-829-33	IC MB94918RPF-G-133-BND	
IC903		6-700-149-01	IC M24C04-MN6T(A)	
IC904		8-759-349-11	PST9145NL	
			<COIL>	
L304		1-412-029-11	INDUCTOR 10UH	
L305		1-412-029-11	INDUCTOR 10UH	
L501		1-412-026-11	INDUCTOR 1UH	
L502		1-412-026-11	INDUCTOR 1UH	
L503		1-412-026-11	INDUCTOR 1UH	
L504		1-412-026-11	INDUCTOR 1UH	
L505		1-412-029-11	INDUCTOR 10UH	
L506		1-412-026-11	INDUCTOR 1UH	
L508		1-412-029-11	INDUCTOR 10UH	
L509		1-412-029-11	INDUCTOR 10UH	
L511		1-412-026-11	INDUCTOR 1UH	
L512		1-412-026-11	INDUCTOR 1UH	
L604		1-412-029-11	INDUCTOR 10UH	
L605		1-412-029-11	INDUCTOR 10UH	
			<TRANSISTOR>	
Q304		8-729-120-28	2SC1623-L5L6	
Q501		8-729-216-22	2SA1162-G	
Q502		8-729-120-28	2SC1623-L5L6	
Q503		8-729-120-28	2SC1623-L5L6	
Q510		8-729-120-28	2SC1623-L5L6	
Q511		8-729-120-28	2SC1623-L5L6	
Q512		8-729-120-28	2SC1623-L5L6	
Q513		8-729-120-28	2SC1623-L5L6	
Q514		8-729-120-28	2SC1623-L5L6	
Q515		8-729-120-28	2SC1623-L5L6	
Q516		8-729-120-28	2SC1623-L5L6	
Q517		8-729-120-28	2SC1623-L5L6	
Q518		8-729-216-22	2SA1162-G	
Q519		1-801-806-11	TR DTC144EKA	
Q520		1-801-806-11	TR DTC144EKA	
Q521		8-729-120-28	2SC1623-L5L6	
Q522		8-729-120-28	2SC1623-L5L6	
Q523		8-729-120-28	2SC1623-L5L6	
Q524		8-729-120-28	2SC1623-L5L6	
Q601		8-729-120-28	2SC1623-L5L6	
Q602		8-729-120-28	2SC1623-L5L6	
Q901		8-729-216-22	2SA1162-G	

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REF NO.	PART NO.	DESCRIPTION			REMARK
Q902	8-729-216-22	2SA1162-G			
Q903	8-729-216-22	2SA1162-G			
Q904	8-729-028-28	2SK2036(TE85L)			
Q905	8-729-028-28	2SK2036(TE85L)			
Q906	1-801-806-11	TR DTC144EKA			
Q907	8-729-216-22	2SA1162-G			
Q908	8-729-216-22	2SA1162-G			
Q909	8-729-216-22	2SA1162-G			
		<RESISTOR>			
R310	1-216-009-91	RES-CHIP	22	5%	1/10W
R334	1-216-295-91	SHORT	0		
R339	1-216-295-91	SHORT	0		
R350	1-216-049-11	RES-CHIP	1K	5%	1/10W
R361	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R362	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R363	1-216-037-00	RES-CHIP	330	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-047-91	RES-CHIP	820	5%	1/10W
R366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R367	1-216-117-00	RES-CHIP	680K	5%	1/10W
R368	1-216-117-00	RES-CHIP	680K	5%	1/10W
R369	1-216-295-91	SHORT	0		
R371	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R372	1-216-009-91	RES-CHIP	22	5%	1/10W
R373	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R501	1-216-025-11	RES-CHIP	100	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W
R503	1-216-295-91	SHORT	0		
R504	1-216-295-91	SHORT	0		
R505	1-216-295-91	SHORT	0		
R506	1-216-009-91	RES-CHIP	22	5%	1/10W
R507	1-216-009-91	RES-CHIP	22	5%	1/10W
R508	1-216-025-11	RES-CHIP	100	5%	1/10W
R509	1-216-025-11	RES-CHIP	100	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W
R512	1-216-043-91	RES-CHIP	560	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W
R516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R520	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R521	1-216-295-91	SHORT	0		
R523	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R524	1-216-295-91	SHORT	0		
R526	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W
R529	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R530	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W
R532	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W
R534	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R535	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R536	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R540	1-216-049-11	RES-CHIP	1K	5%	1/10W

REF NO.	PART NO.	DESCRIPTION			REMARK
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R558	1-216-025-11	RES-CHIP	100	5%	1/10W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R566	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R571	1-216-295-91	SHORT	0		
R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R580	1-216-295-91	SHORT	0		
R582	1-216-041-00	RES-CHIP	470	5%	1/10W
R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R586	1-216-049-11	RES-CHIP	1K	5%	1/10W
R587	1-216-049-11	RES-CHIP	1K	5%	1/10W
R589	1-216-049-11	RES-CHIP	1K	5%	1/10W
R590	1-216-049-11	RES-CHIP	1K	5%	1/10W
R591	1-216-049-11	RES-CHIP	1K	5%	1/10W
R592	1-216-049-11	RES-CHIP	1K	5%	1/10W
R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R597	1-216-073-91	RES-CHIP	10K	5%	1/10W
R598	1-216-025-11	RES-CHIP	100	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R609	1-216-073-91	RES-CHIP	10K	5%	1/10W
R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R611	1-216-073-91	RES-CHIP	10K	5%	1/10W
R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R615	1-216-089-91	RES-CHIP	47K	5%	1/10W
R616	1-216-073-91	RES-CHIP	10K	5%	1/10W
R617	1-216-295-91	SHORT	0		
R619	1-216-073-91	RES-CHIP	10K	5%	1/10W
R621	1-216-295-91	SHORT	0		
R622	1-216-295-91	SHORT	0		
R623	1-216-295-91	SHORT	0		
R624	1-216-295-91	SHORT	0		
R625	1-216-295-91	SHORT	0		
R626	1-216-073-91	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0		
R629	1-216-073-91	RES-CHIP	10K	5%	1/10W
R631	1-216-295-91	SHORT	0		

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-019-00	RES-CHIP	56	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0		
R653	1-216-025-11	RES-CHIP	100	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W
R655	1-216-295-91	SHORT	0		
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-049-11	RES-CHIP	1K	5%	1/10W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-216-025-11	RES-CHIP	100	5%	1/10W
R661	1-216-025-11	RES-CHIP	100	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-295-91	SHORT	0		
R671	1-216-073-91	RES-CHIP	10K	5%	1/10W
R672	1-216-073-91	RES-CHIP	10K	5%	1/10W
R673	1-216-073-91	RES-CHIP	10K	5%	1/10W
R674	1-216-073-91	RES-CHIP	10K	5%	1/10W
R675	1-216-073-91	RES-CHIP	10K	5%	1/10W
R676	1-216-073-91	RES-CHIP	10K	5%	1/10W
R677	1-216-073-91	RES-CHIP	10K	5%	1/10W
R678	1-216-073-91	RES-CHIP	10K	5%	1/10W
R679	1-216-073-91	RES-CHIP	10K	5%	1/10W
R680	1-216-073-91	RES-CHIP	10K	5%	1/10W
R681	1-216-073-91	RES-CHIP	10K	5%	1/10W
R682	1-216-073-91	RES-CHIP	10K	5%	1/10W
R683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R684	1-216-073-91	RES-CHIP	10K	5%	1/10W
R685	1-216-073-91	RES-CHIP	10K	5%	1/10W
R686	1-216-073-91	RES-CHIP	10K	5%	1/10W
R687	1-216-295-91	SHORT	0		
R688	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R690	1-216-295-91	SHORT	0		
R691	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R696	1-216-049-11	RES-CHIP	1K	5%	1/10W
R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R699	1-216-295-91	SHORT	0		
R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R804	1-216-073-91	RES-CHIP	10K	5%	1/10W
R806	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R807	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R813	1-216-295-91	SHORT	0		
R814	1-216-073-91	RES-CHIP	10K	5%	1/10W
R815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R816	1-216-073-91	RES-CHIP	10K	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R817	1-216-017-91	RES-CHIP	47	5%	1/10W
R823	1-216-073-91	RES-CHIP	10K	5%	1/10W
R824	1-216-073-91	RES-CHIP	10K	5%	1/10W
R825	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R826	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R831	1-216-295-91	SHORT	0		
R832	1-216-295-91	SHORT	0		
R833	1-216-295-91	SHORT	0		
R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R835	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R844	1-216-017-91	RES-CHIP	47	5%	1/10W
R845	1-216-017-91	RES-CHIP	47	5%	1/10W
R846	1-216-017-91	RES-CHIP	47	5%	1/10W
R847	1-216-017-91	RES-CHIP	47	5%	1/10W
R848	1-216-017-91	RES-CHIP	47	5%	1/10W
R849	1-216-017-91	RES-CHIP	47	5%	1/10W
R850	1-216-017-91	RES-CHIP	47	5%	1/10W
R851	1-216-017-91	RES-CHIP	47	5%	1/10W
R852	1-216-009-91	RES-CHIP	22	5%	1/10W
R853	1-216-009-91	RES-CHIP	22	5%	1/10W
R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R855	1-216-009-91	RES-CHIP	22	5%	1/10W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R857	1-216-009-91	RES-CHIP	22	5%	1/10W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R859	1-216-009-91	RES-CHIP	22	5%	1/10W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W
R861	1-216-009-91	RES-CHIP	22	5%	1/10W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W
R863	1-216-009-91	RES-CHIP	22	5%	1/10W
R864	1-216-017-91	RES-CHIP	47	5%	1/10W
R865	1-216-017-91	RES-CHIP	47	5%	1/10W
R866	1-216-017-91	RES-CHIP	47	5%	1/10W
R867	1-216-017-91	RES-CHIP	47	5%	1/10W
R868	1-216-017-91	RES-CHIP	47	5%	1/10W
R869	1-216-017-91	RES-CHIP	47	5%	1/10W
R870	1-216-017-91	RES-CHIP	47	5%	1/10W
R871	1-216-017-91	RES-CHIP	47	5%	1/10W
R872	1-216-017-91	RES-CHIP	47	5%	1/10W
R873	1-216-017-91	RES-CHIP	47	5%	1/10W
R874	1-216-017-91	RES-CHIP	47	5%	1/10W
R875	1-216-017-91	RES-CHIP	47	5%	1/10W
R876	1-216-017-91	RES-CHIP	47	5%	1/10W
R877	1-216-017-91	RES-CHIP	47	5%	1/10W
R878	1-216-017-91	RES-CHIP	47	5%	1/10W
R879	1-216-017-91	RES-CHIP	47	5%	1/10W
R880	1-216-009-91	RES-CHIP	22	5%	1/10W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W
R882	1-216-009-91	RES-CHIP	22	5%	1/10W
R883	1-216-009-91	RES-CHIP	22	5%	1/10W
R884	1-216-009-91	RES-CHIP	22	5%	1/10W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R886	1-216-009-91	RES-CHIP	22	5%	1/10W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R889	1-216-295-91	SHORT	0		
R890	1-216-009-91	RES-CHIP	22	5%	1/10W
R891	1-216-017-91	RES-CHIP	47	5%	1/10W
R892	1-216-017-91	RES-CHIP	47	5%	1/10W
R893	1-216-017-91	RES-CHIP	47	5%	1/10W

B3

REF NO.	PART NO.	DESCRIPTION		REMARK	
R894	1-216-017-91	RES-CHIP	47	5%	1/10W
R895	1-216-017-91	RES-CHIP	47	5%	1/10W
R896	1-216-017-91	RES-CHIP	47	5%	1/10W
R897	1-216-017-91	RES-CHIP	47	5%	1/10W
R898	1-216-017-91	RES-CHIP	47	5%	1/10W
R899	1-216-073-91	RES-CHIP	10K	5%	1/10W
R901	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R902	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R903	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R910	1-216-049-11	RES-CHIP	1K	5%	1/10W
R911	1-216-049-11	RES-CHIP	1K	5%	1/10W
R912	1-216-049-11	RES-CHIP	1K	5%	1/10W
R914	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R916	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R923	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R924	1-216-073-91	RES-CHIP	10K	5%	1/10W
R926	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R929	1-216-025-11	RES-CHIP	100	5%	1/10W
R930	1-216-025-11	RES-CHIP	100	5%	1/10W
R931	1-216-041-00	RES-CHIP	470	5%	1/10W
R933	1-216-025-11	RES-CHIP	100	5%	1/10W
R934	1-216-025-11	RES-CHIP	100	5%	1/10W
R935	1-216-073-91	RES-CHIP	10K	5%	1/10W
R936	1-216-041-00	RES-CHIP	470	5%	1/10W
R937	1-216-025-11	RES-CHIP	100	5%	1/10W
R938	1-216-025-11	RES-CHIP	100	5%	1/10W
R940	1-216-295-91	SHORT	0		
R941	1-216-295-91	SHORT	0		
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R944	1-216-295-91	SHORT	0		
R945	1-216-295-91	SHORT	0		
R951	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R952	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R956	1-216-089-91	RES-CHIP	47K	5%	1/10W
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R979	1-216-295-91	SHORT	0		
R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R986	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R987	1-216-049-11	RES-CHIP	1K	5%	1/10W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R991	1-216-295-91	SHORT	0		
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R995	1-216-033-00	RES-CHIP	220	5%	1/10W
R996	1-216-037-00	RES-CHIP	330	5%	1/10W
R998	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2801	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2802	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2804	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2805	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R2806	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-295-91	SHORT	0		
R2813	1-216-295-91	SHORT	0		
R2815	1-216-295-91	SHORT	0		
R2817	1-216-295-91	SHORT	0		
R2818	1-216-295-91	SHORT	0		
R2820	1-216-295-91	SHORT	0		
R2822	1-216-295-91	SHORT	0		

RB001	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB002	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB003	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB004	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB005	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB006	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB007	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB008	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB009	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB010	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB011	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB012	1-239-414-11	NETWORK RESISTOR (CHIP) 150
RB013	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB014	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB015	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB016	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0

<CRYSTAL>

X802	1-795-112-21	VIBRATOR, CRYSTAL
X901	1-760-014-11	VIBRATOR, CERAMIC

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BC4

REF NO.	PART NO.	DESCRIPTION			REMARK
*	A-1136-252-A	BC4 BOARD COMPLETE			
		**********			
	3-350-679-01	WASHER, FIBER			
		<CAPACITOR>			
C2003	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2005	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V
C2006	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2010	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2011	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2015	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2017	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2018	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2021	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2024	1-216-295-91	SHORT	0		
C2029	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2030	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2031	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2032	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2033	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2034	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2035	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2036	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2037	1-126-947-11	ELECT	47UF	20.00%	16V
C2038	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2039	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2040	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2041	1-126-924-11	ELECT	330UF	20.00%	6.3V
C2042	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2044	1-126-947-11	ELECT	47UF	20.00%	16V
C2045	1-163-106-00	CERAMIC CHIP	36PF	5.00%	50V
C2046	1-126-964-11	ELECT	10UF	20.00%	50V
C2047	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2048	1-126-964-11	ELECT	10UF	20.00%	50V
C2049	1-126-960-11	ELECT	1UF	20.00%	50V
C2050	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2051	1-126-964-11	ELECT	10UF	20.00%	50V
C2052	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C2053	1-126-960-11	ELECT	1UF	20.00%	50V
C2054	1-126-947-11	ELECT	47UF	20.00%	16V
C2055	1-126-947-11	ELECT	47UF	20.00%	16V
C2056	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2057	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2058	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2059	1-126-947-11	ELECT	47UF	20.00%	16V
C2060	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2061	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2062	1-126-947-11	ELECT	47UF	20.00%	16V
C2063	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2064	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2065	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2066	1-126-947-11	ELECT	47UF	20.00%	16V
C2067	1-126-947-11	ELECT	47UF	20.00%	16V
C2068	1-126-947-11	ELECT	47UF	20.00%	16V
C2069	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2070	1-126-947-11	ELECT	47UF	20.00%	16V
C2071	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2072	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C2074	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2075	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2078	1-126-947-11	ELECT	47UF	20.00%	16V
C2079	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2080	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2095	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2096	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2097	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
		<CONNECTOR>			
CN2001 *	1-793-685-11	PIN, CONNECTOR (PC BOARD) 15P			
		<FERRITE BEAD>			
FB2002	1-414-234-22	FERRITE	0UH		
FB2008	1-414-234-22	FERRITE	0UH		
FB2009	1-414-234-22	FERRITE	0UH		
FB2010	1-414-234-22	FERRITE	0UH		
FB2011	1-414-234-22	FERRITE	0UH		
FB2012	1-414-234-22	FERRITE	0UH		
FB2014	1-414-234-22	FERRITE	0UH		
FB2015	1-414-234-22	FERRITE	0UH		
FB2016	1-414-234-22	FERRITE	0UH		
FB2017	1-414-234-22	FERRITE	0UH		
		<FILTER>			
FL2001	1-239-848-11	FILTER, LOW PASS			
FL2002	1-239-848-11	FILTER, LOW PASS			
FL2003	1-239-848-11	FILTER, LOW PASS			
FL2004	1-239-848-11	FILTER, LOW PASS			
FL2005	1-233-736-21	FILTER, EMI			
FL2006	1-233-736-21	FILTER, EMI			
FL2007	1-233-736-21	FILTER, EMI			
		<IC>			
IC2003	8-759-568-27	MSM514265C-60JS			
IC2004	8-759-594-44	UPD64082GF-3BA			
IC2005	8-759-431-14	PQ3TZ53U			
		<COIL>			
L2001	1-410-200-31	INDUCTOR	4.7UH		
L2004	1-412-058-11	INDUCTOR	10UH		
L2005	1-412-058-11	INDUCTOR	10UH		
L2006	1-412-058-11	INDUCTOR	10UH		
L2007	1-412-058-11	INDUCTOR	10UH		
L2008	1-412-058-11	INDUCTOR	10UH		
		<TRANSISTOR>			
Q2002	8-729-216-22	2SA1162-G			
Q2003	8-729-216-22	2SA1162-G			
Q2004	8-729-216-22	2SA1162-G			
Q2005	8-729-422-33	2SD601A-Q-TX			
Q2006	8-729-422-33	2SD601A-Q-TX			
Q2007	8-729-422-33	2SD601A-Q-TX			
Q2008	8-729-422-33	2SD601A-Q-TX			
Q2009	8-729-422-33	2SD601A-Q-TX			
Q2010	8-729-422-33	2SD601A-Q-TX			
Q2011	8-729-422-33	2SD601A-Q-TX			

BC4 C

REF NO.	PART NO.	DESCRIPTION			REMARK
Q2012	8-729-216-22	2SA1162-G			
Q2013	8-729-216-22	2SA1162-G			
Q2014	8-729-422-33	2SD601A-Q-TX			
Q2015	8-729-422-33	2SD601A-Q-TX			
Q2016	8-729-422-33	2SD601A-Q-TX			
Q2018	8-729-216-22	2SA1162-G			
Q2019	8-729-422-33	2SD601A-Q-TX			
		<RESISTOR>			
R2001	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2011	1-216-041-00	RES-CHIP	470	5%	1/10W
R2015	1-216-041-00	RES-CHIP	470	5%	1/10W
R2019	1-216-295-91	SHORT	0		
R2021	1-216-025-11	RES-CHIP	100	5%	1/10W
R2027	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2028	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W
R2031	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2033	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2035	1-216-043-91	RES-CHIP	560	5%	1/10W
R2036	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R2037	1-216-044-00	RES-CHIP	620	5%	1/10W
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2044	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2047	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2052	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2053	1-216-041-00	RES-CHIP	470	5%	1/10W
R2054	1-216-041-00	RES-CHIP	470	5%	1/10W
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W
R2056	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2057	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2058	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2059	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2060	1-216-025-11	RES-CHIP	100	5%	1/10W
R2061	1-216-043-91	RES-CHIP	560	5%	1/10W
R2062	1-216-105-91	RES-CHIP	220K	5%	1/10W
R2063	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2064	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2066	1-216-033-00	RES-CHIP	220	5%	1/10W
R2067	1-216-043-91	RES-CHIP	560	5%	1/10W
R2069	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2070	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2074	1-216-025-11	RES-CHIP	100	5%	1/10W
R2075	1-216-295-91	SHORT	0		
R2076	1-216-025-11	RES-CHIP	100	5%	1/10W
R2077	1-216-025-11	RES-CHIP	100	5%	1/10W

REF NO.	PART NO.	DESCRIPTION			REMARK
R2078	1-216-295-91	SHORT	0		
R2092	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2104	1-216-295-91	SHORT	0		
R2105	1-216-295-91	SHORT	0		
R2106	1-216-295-91	SHORT	0		
R2107	1-216-295-91	SHORT	0		
R2108	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2110	1-216-295-91	SHORT	0		
R2112	1-216-295-91	SHORT	0		
R2113	1-216-017-91	RES-CHIP	47	5%	1/10W
R2115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-296-11	SHORT	0		
R2119	1-216-296-11	SHORT	0		
R2200	1-216-296-11	SHORT	0		
		<VARIABLE RESISTOR>			
RV2001	1-223-271-21	RES, ADJ, CERMET 220			
		<CRYSTAL>			
X2001	1-767-606-11	VIBRATOR, CRYSTAL			
**********					
*	A-1332-227-A	C BOARD MOUNTED			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C9002	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9003	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9004	1-162-114-00	CERAMIC	0.0047UF		2KV
C9005	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9006	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9007	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9008	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9009	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9010	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9011	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9012	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9014	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9015	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9018	1-107-961-91	ELECT	10UF	20.00%	250V
C9019	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C9020	1-107-961-91	ELECT	10UF	20.00%	250V
C9021	1-107-961-91	ELECT	10UF	20.00%	250V
C9022	1-101-004-00	CERAMIC	0.01UF		50V
C9023	1-101-004-00	CERAMIC	0.01UF		50V
C9024	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C9025	1-104-653-11	ELECT	220UF	20.00%	16V
C9026	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C9027	1-101-004-00	CERAMIC	0.01UF		50V
C9028	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9029	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C9030	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9031	1-162-114-00	CERAMIC	0.0047UF		2KV
C9032	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C9033	1-107-662-11	ELECT	22UF	20.00%	250V
C9035	1-162-114-00	CERAMIC	0.0047UF		2KV
C9042	1-104-661-91	ELECT	330UF	20.00%	16V
		<CONNECTOR>			
CN9001 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN9002	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CN9003	1-695-915-11	TAB (CONTACT)			
CN9004	1-695-915-11	TAB (CONTACT)			
CN9007	1-785-879-11	CONNECTOR, ONE TOUCH			
		<DIODE>			
D9002	8-719-400-75	MA3091			
D9005	8-719-404-50	MA111-TX			
D9006	8-719-051-85	HSS83TD			
D9007	8-719-051-85	HSS83TD			
D9008	8-719-051-85	HSS83TD			
D9009	8-719-908-03	GP08D			
D9010	8-719-110-17	RD10ESB2			
D9011	8-719-404-50	MA111-TX			
D9012	8-719-404-50	MA111-TX			
D9013	8-719-404-50	MA111-TX			
		<IC>			
IC9001	8-759-360-83	TDA6111Q/N4			
IC9002	8-759-360-83	TDA6111Q/N4			
IC9003	8-759-360-83	TDA6111Q/N4			
		<JACK>			
J9001 ⚠	1-540-071-22	SOCKET, CRT			
		<COIL>			
L9001	1-414-158-11	INDUCTOR	2.2UH		
L9002	1-408-591-11	INDUCTOR	1UH		
L9003	1-408-591-11	INDUCTOR	1UH		
L9004	1-408-591-11	INDUCTOR	1UH		
L9005	1-406-666-21	INDUCTOR	150UH		
L9006	1-412-526-11	INDUCTOR	12UH		
		<NEON LAMP>			
NL9001	1-519-526-11	LAMP, NEON			
NL9003	1-519-421-11	GAP, DISCHARGE			
		<TRANSISTOR>			
Q9001	8-729-026-49	2SA1037AK-T146-R			
Q9009	8-729-026-49	2SA1037AK-T146-R			
Q9010	8-729-026-49	2SA1037AK-T146-R			
Q9011	8-729-026-49	2SA1037AK-T146-R			

REF NO.	PART NO.	DESCRIPTION		REMARK	
		<RESISTOR>			
R9001	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9004	1-216-105-91	RES-CHIP	220K	5%	1/10W
R9006	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9007	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W
R9012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9018	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9019	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9021	1-216-295-91	SHORT	0		
R9023	1-216-295-91	SHORT	0		
R9026	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9031	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9033	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R9034	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R9035	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9037	1-240-233-21	METAL OXIDE	100K	5%	3W
R9038	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9039	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9043	1-240-233-21	METAL OXIDE	100K	5%	3W
R9044	1-240-233-21	METAL OXIDE	100K	5%	3W
R9047	1-202-557-00	SOLID	220	20%	1/2W
R9048	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
R9051	1-202-557-00	SOLID	220	20%	1/2W
R9052	1-202-557-00	SOLID	220	20%	1/2W
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
R9055	1-243-994-91	CEMENTED	820K	5%	0.5W
R9056	1-219-752-11	CARBON	100K	5%	1/2W
R9057	1-220-827-91	RESISTOR	560K	5%	1/2W
R9058	1-243-994-91	CEMENTED	820K	5%	0.5W
R9059	1-219-746-11	CARBON	1K	5%	1/2W
R9061	1-219-743-11	CARBON	100	5%	1/2W
R9065	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9069	1-219-743-11	CARBON	100	5%	1/2W
R9070	1-216-037-00	RES-CHIP	330	5%	1/10W
R9071	1-216-037-00	RES-CHIP	330	5%	1/10W
R9072	1-216-037-00	RES-CHIP	330	5%	1/10W
R9073	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		<VARIABLE RESISTOR>			
RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M			
RV9002	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M			

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* A-1348-123-A D BOARD COMPLETE
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* 4-374-846-01 COVER, CAPACITOR, CAP TYPE
4-382-854-11 SCREW (M3X10), P, SW (+)
4-382-854-21 SCREW (M3X14), P, SW (+)

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.		PART NO.	DESCRIPTION			REMARK
			<CAPACITOR>			
C6601		1-126-933-11	ELECT	100UF	20.00%	16V
C6602		1-129-720-00	FILM	0.033UF	5.00%	630V
C6604		1-126-947-11	ELECT	47UF	20.00%	16V
C6607	⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6608	⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6613		1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6614		1-161-830-00	CERAMIC	0.0047UF		500V
C6617		1-161-830-00	CERAMIC	0.0047UF		500V
C6619		1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6621		1-131-940-11	ELECT	1200UF	20%	250V
C6622		1-131-940-11	ELECT	1200UF	20%	250V
C6625		1-129-718-00	FILM	0.022UF	5.00%	630V
C6626		1-130-029-00	FILM	8200PF	2.00%	50V
C6627		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6628		1-104-330-91	CERAMIC	470PF	10.00%	1KV
C6630		1-107-680-91	ELECT	22UF	20.00%	450V
C6631		1-126-964-11	ELECT	10UF	20.00%	50V
C6632		1-126-963-11	ELECT	4.7UF	20.00%	50V
C6633		1-126-947-11	ELECT	47UF	20.00%	25V
C6634		1-126-968-11	ELECT	100UF	20.00%	50V
C6635		1-102-973-00	CERAMIC	100PF	5.00%	50V
C6637		1-109-879-11	CERAMIC	22PF	5.00%	2KV
C6638		1-107-906-11	ELECT	10UF	20.00%	50V
C6639		1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6640		1-104-330-91	CERAMIC	470PF	10.00%	1KV
C6641		1-136-189-00	MYLAR	0.1UF	10.00%	250V
C6642		1-126-964-11	ELECT	10UF	20.00%	50V
C6643		1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6648		1-126-935-11	ELECT	470UF	20.00%	16V
C6649		1-126-933-11	ELECT	100UF	20.00%	16V
C6650		1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6651		1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6652		1-110-626-11	ELECT	330UF	20.00%	160V
C6653		1-137-368-11	MYLAR	0.0047UF	5.00%	50V
C6654		1-126-936-11	ELECT	3300UF	20.00%	16V
C6655		1-126-942-61	ELECT	1000UF	20.00%	25V
C6656		1-136-165-00	FILM	0.1UF	5.00%	50V
C6658		1-126-944-11	ELECT	3300UF	20.00%	25V
C6659		1-126-944-11	ELECT	3300UF	20.00%	25V
C6660		1-126-960-11	ELECT	1UF	20.00%	50V
C6661		1-107-888-11	ELECT	47UF	20.00%	25V
C6662		1-126-947-11	ELECT	47UF	20.00%	16V
C6663		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6664		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6665		1-126-964-11	ELECT	10UF	20.00%	50V
C6666		1-137-150-11	MYLAR	0.01UF	5.00%	50V
C6668		1-126-947-11	ELECT	47UF	20.00%	16V
C6669		1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6670		1-162-115-00	CERAMIC	330PF	10.00%	1KV
C6671		1-129-718-00	FILM	0.022UF	5.00%	630V
C6672		1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
C6673		1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
C6674		1-128-527-11	ELECT	330UF	20.00%	25V
C6678		1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C6679		1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6680		1-136-157-00	FILM	0.022UF	5.00%	50V
C6800		1-126-964-11	ELECT	10UF	20.00%	50V
C6801		1-126-960-11	ELECT	1UF	20.00%	50V
C6802		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6803		1-102-129-00	CERAMIC	0.01UF	10.00%	50V

REF NO.	PART NO.	DESCRIPTION			REMARK
C6804	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
C6805	1-111-087-11	ELECT	330UF	20.00%	25V
C6806	1-107-933-11	ELECT	100UF	20.00%	100V
C6808	1-137-401-11	MYLAR	0.22UF	10.00%	100V
C6809	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C6810	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C6811	1-111-087-11	ELECT	330UF	20.00%	25V
C6812	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6813	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6814	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V
C6815	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6816	1-137-577-11	FILM	0.068UF	5.00%	400V
C6817	1-126-947-11	ELECT	47UF	20.00%	16V
C6818	1-126-960-11	ELECT	1UF	20.00%	50V
C6819	1-126-960-11	ELECT	1UF	20.00%	50V
C6820	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6821	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6822	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6823	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6826	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6827	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6828	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C6829	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C6830	1-117-619-11	FILM	1000PF	3.00%	1.2KV
C6831	1-117-838-21	FILM	8200PF	3.00%	1.5KV
C6832	1-117-842-21	FILM	12000PF	3.00%	1.5KV
C6833	1-127-680-11	FILM MELF	4700PF	2%	100V
C6834	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6835	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6836	1-127-681-11	FILM MELF	10000PF	2%	100V
C6837	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6838	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6839	1-126-933-11	ELECT	100UF	20.00%	16V
C6840	1-126-933-11	ELECT	100UF	20.00%	16V
C6841	1-115-511-11	FILM	0.12UF	5.00%	250V
C6842	1-117-673-11	FILM	1.5UF	5.00%	250V
C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6845	1-117-664-11	FILM	0.27UF	5.00%	250V
C6846	1-115-514-11	FILM	0.22UF	5.00%	250V
C6847	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6848	1-113-979-51	FILM	0.047UF	5%	250V
C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6851	1-107-639-11	ELECT	47UF	20.00%	160V
C6853	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6854	1-126-941-11	ELECT	470UF	20.00%	25V
C6855	1-123-024-21	ELECT	33UF		160V
C6856	1-126-971-11	ELECT	470UF	20.00%	50V
C6857	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6858	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6859	1-162-129-00	CERAMIC	150PF	10.00%	2KV
C6860	1-162-129-00	CERAMIC	150PF	10.00%	2KV
C6862	1-130-202-00	FILM	0.022UF	5.00%	200V
C6863	1-107-906-11	ELECT	10UF	20.00%	50V
C6864	1-129-898-00	FILM	0.0022UF	5.00%	630V
C6865	1-130-202-00	FILM	0.022UF	5.00%	400V
C6866	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6867	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6869	1-107-882-91	ELECT	100UF	20.00%	16V
C6870	1-128-528-11	ELECT	470UF	20.00%	25V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6874	1-136-165-00	FILM	0.1UF	5.00%	50V
C6875	1-126-947-11	ELECT	47UF	20.00%	16V
C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6877	1-126-964-11	ELECT	10UF	20.00%	50V
C6878	1-126-320-11	ELECT	10UF	20.00%	16V
C6879	1-107-960-11	ELECT	4.7UF	20.00%	160V
C6880	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6882	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C6883	1-126-965-91	ELECT	22UF	20.00%	50V
C6884	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V
		<CONNECTOR>			
CN6602⚠	*1-508-786-13	PIN, CONNECTOR (5MM PITCH) 2P			
CN6603⚠	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P			
CN6604⚠	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
CN6605⚠	*1-564-513-11	PLUG, CONNECTOR 10P			
CN6606 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN6608 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN6609 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6610 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6611 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6612 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6613 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6614 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6615 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6616 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6618 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6800	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P			
CN6801⚠	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)			
CN6802	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P			
CN6810	1-785-879-11	CONNECTOR, ONE TOUCH			
CN6811 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN6812 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
		<DIODE>			
D6601	8-719-911-19	1SS119-25			
D6605	8-719-510-53	D4SB60L			
D6612	8-719-911-55	U05G			
D6613	8-719-911-55	U05G			
D6614	8-719-110-30	RD12ES-B1			
D6615	8-719-911-19	1SS119-25			
D6616	8-719-911-55	U05G			
D6617	8-719-911-55	U05G			
D6618	8-719-404-50	MA111-TX			
D6619	8-719-110-30	RD12ES-B1			
D6621	8-719-063-73	DIODE D1NL20U-TR			
D6622	8-719-979-64	UF4005PKG23			
D6623	8-719-059-23	P6KE200AG23			
D6624	8-719-510-02	D1NS4			
D6625	8-719-110-36	RD13ES-B2			
D6626	8-719-979-64	UF4005PKG23			
D6628	8-719-063-73	DIODE D1NL20U-TR			
D6631	8-719-050-18	D4SBL20U			
D6633	8-719-510-12	D10SC4M			
D6634	8-719-060-88	DIODE D4SBS6			
D6635	8-719-110-47	RD18ESB			
D6636	8-719-911-19	1SS119-25			

REF NO.	PART NO.	DESCRIPTION	REMARK
D6639	8-719-063-73	DIODE D1NL20U-TR	
D6640	8-719-110-72	RD30ESB2	
D6641	8-719-109-96	RD6.8ES-B1	
D6642	8-719-911-19	1SS119-25	
D6643	8-719-979-64	UF4005PKG23	
D6644	8-719-052-92	D10SBS4F	
D6650	8-719-911-19	1SS119-25	
D6800	8-719-110-03	RD7.5ESB2	
D6801	8-719-911-19	1SS119-25	
D6803	8-719-510-73	S3L20UF4	
D6805	8-719-110-39	RD15ES-B1	
D6806	8-719-911-19	1SS119-25	
D6807	8-719-109-68	RD3.6ES-B1	
D6808	8-719-914-43	DAN202K	
D6809	8-719-908-03	GP08D	
D6813	8-719-302-43	EL1Z	
D6814	8-719-018-82	RGP02-20EL-6394	
D6816	8-719-510-73	S3L20UF4	
D6817	8-719-510-73	S3L20UF4	
D6820	8-719-970-87	ERA38-06	
D6821	8-719-970-87	ERA38-06	
D6822	8-719-067-18	RN4Z	
D6823	8-719-911-19	1SS119-25	
D6824	8-719-510-73	S3L20UF4	
D6825	8-719-914-43	DAN202K	
D6826	8-719-911-19	1SS119-25	
		<FERRITE BEAD>	
FB6602	1-239-358-21	FILTER, NOISE	
FB6603	1-239-358-21	FILTER, NOISE	
		<IC>	
IC6603	8-749-016-66	MCR5152	
IC6604	8-759-468-89	TOP209P	
IC6606	8-759-450-47	BA05T	
IC6607	8-749-012-13	DM-58	
IC6800	8-759-192-71	STV9379	
IC6801	8-759-450-95	LM393N	
IC6804	8-759-394-36	BA09T	
IC6805	8-759-394-35	BA12T	
IC6806	8-749-013-76	PQ6RD83B	
		<CHIP CONDUCTOR>	
JR6601	1-216-295-91	SHORT 0	
JR6603	1-216-295-91	SHORT 0	
JR6605	1-216-296-11	SHORT 0	
JR6606	1-216-296-11	SHORT 0	
JR6607	1-216-295-91	SHORT 0	
JR6608	1-216-296-11	SHORT 0	
JR6609	1-216-295-91	SHORT 0	
JR6610	1-216-296-11	SHORT 0	
JR6613	1-216-295-91	SHORT 0	
JR6802	1-216-296-11	SHORT 0	
JR6810	1-216-296-11	SHORT 0	
		<COIL>	
L6601	1-412-525-31	INDUCTOR 10UH	
L6602	1-410-397-21	FERRITE 1.1UH	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION	REMARK
L6603	1-410-397-21	FERRITE 1.1UH	
L6604	1-412-525-31	INDUCTOR 10UH	
L6605	1-412-525-31	INDUCTOR 10UH	
L6606	1-412-525-31	INDUCTOR 10UH	
L6607	1-412-519-11	INDUCTOR 3.3UH	
L6800	1-412-525-31	INDUCTOR 10UH	
L6801	1-406-986-21	INDUCTOR 3.3UH	
L6802	1-416-775-21	INDUCTOR 1MH	
L6803	1-406-982-11	INDUCTOR 680UH	
L6804	1-412-519-11	INDUCTOR 3.3UH	
L6805	1-412-519-11	INDUCTOR 3.3UH	
L6806	1-412-519-11	INDUCTOR 3.3UH	
L6807	1-412-552-11	INDUCTOR 2.2MH	
L6808	1-406-674-11	INDUCTOR 3.3MH	
		<PHOTO COUPLER>	
PH6601	8-749-924-35	ON3171-R	
PH6602	8-749-924-35	ON3171-R	
		<IC LINK>	
PS6605	1-533-597-41	LINK, IC	
PS6606	1-533-597-41	LINK, IC	
PS6607	1-533-597-41	LINK, IC	
PS6801	1-532-841-21	LINK, IC	
		<TRANSISTOR>	
Q6601	8-729-119-78	2SC2785-HFE	
Q6604	8-729-119-76	2SA1175-HFE	
Q6605	8-729-230-49	2SC2712-YG	
Q6606	8-729-140-93	2SB733-34	
Q6608	8-729-200-21	2SC2500-B	
Q6609	8-729-029-56	DTA144ESA	
Q6610	8-729-119-78	2SC2785-HFE	
Q6611	8-729-029-66	DTC114ESA	
Q6612	8-729-029-66	DTC114ESA	
Q6613	8-729-030-02	DTC144ESA	
Q6800	8-729-422-33	2SD601A-Q-TX	
Q6801	8-729-039-68	IRF620	
Q6802	8-729-025-19	IRFI740G	
Q6803	8-729-119-76	2SA1175-HFE	
Q6804	8-729-119-78	2SC2785-HFE	
Q6805	8-729-140-96	2SD774-34	
Q6806	8-729-140-96	2SD774-34	
Q6807	8-729-046-18	2SC5480-01	
Q6808	8-729-046-18	2SC5480-01	
Q6809	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q6810	8-729-047-60	IRFI830G-LF49	
Q6811	1-801-806-11	TR DTC144EKA	
Q6812	8-729-043-95	2SC3840(3)	
Q6813	8-729-422-33	2SD601A-Q-TX	
Q6814	8-729-026-49	2SA1037AK-T146-R	
Q6815	8-729-045-65	2SA1776TV2Q	
Q6816	8-729-140-96	2SD774-34	
Q6817	8-729-422-33	2SD601A-Q-TX	
Q6818	1-801-806-11	TR DTC144EKA	
Q6819	1-801-806-11	TR DTC144EKA	
Q6820	8-729-422-33	2SD601A-Q-TX	
Q6821	8-729-026-49	2SA1037AK-T146-R	
Q6822	8-729-026-49	2SA1037AK-T146-R	
Q6823	8-729-422-33	2SD601A-Q-TX	

REF NO.	PART NO.	DESCRIPTION		REMARK	
		<RESISTOR>			
R6600	1-216-295-91	SHORT	0		
R6602	1-249-417-11	CARBON	1K	5%	1/4W
R6638	1-240-876-11	CEMENTED	1	5%	15W
R6639	1-240-876-11	CEMENTED	1	5%	15W
R6641	1-260-131-11	CARBON	470K	5%	1/2W
R6642	1-260-131-11	CARBON	470K	5%	1/2W
R6645	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6647	1-215-864-00	METAL OXIDE	150	5%	1W
R6648	1-215-481-00	METAL	330K	1%	1/4W
R6649	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6650	1-215-481-00	METAL	330K	1%	1/4W
R6651	1-215-430-00	METAL	2.4K	1%	1/4W
R6652	1-215-450-00	METAL	16K	1%	1/4W
R6653	1-219-776-11	CARBON	2.2M	10%	1/2W
R6654	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6656	1-215-481-00	METAL	330K	1%	1/4W
R6657	1-247-791-91	CARBON	22	5%	1/4W
R6658	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6659	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6660	1-249-389-11	CARBON	4.7	5%	1/4W
R6661	1-215-421-00	METAL	1K	1%	1/4W
R6662	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6663	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6665	1-219-776-11	CARBON	2.2M	10%	1/2W
R6666	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6667	1-249-413-11	CARBON	470	5%	1/4W
R6668	1-216-017-91	RES-CHIP	47	5%	1/10W
R6669	1-249-417-11	CARBON	1K	5%	1/4W
R6672	1-249-421-11	CARBON	2.2K	5%	1/4W
R6674	1-249-418-11	CARBON	1.2K	5%	1/4W
R6679	1-249-437-11	CARBON	47K	5%	1/4W
R6680	1-216-362-11	METAL OXIDE	0.27	5%	2W
R6681	1-249-429-11	CARBON	10K	5%	1/4W
R6682	1-249-416-11	CARBON	820	5%	1/4W
R6683	1-260-127-11	CARBON	220K	5%	1/2W
R6685	1-249-421-11	CARBON	2.2K	5%	1/4W
R6686	⚠ 1-240-917-91	METAL	8.2M	5%	1W
R6688	1-249-417-11	CARBON	1K	5%	1/4W
R6689	1-249-389-11	CARBON	4.7	5%	1/4W
R6690	1-249-429-11	CARBON	10K	5%	1/4W
R6691	1-260-131-11	CARBON	470K	5%	1/2W
R6692	1-249-410-11	CARBON	270	5%	1/4W
R6693	1-215-451-00	METAL	18K	1%	1/4W
R6694	1-215-471-00	METAL	120K	1%	1/4W
R6696	1-215-925-11	METAL OXIDE	22K	5%	3W
R6697	1-249-429-11	CARBON	10K	5%	1/4W
R6698	1-249-417-11	CARBON	1K	5%	1/4W
R6704	1-249-377-11	CARBON	0.47	5%	1/4W
R6707	1-249-421-11	CARBON	2.2K	5%	1/4W
R6710	1-217-158-00	METAL	0.47	10%	5W
R6713	1-249-423-11	CARBON	3.3K	5%	1/4W
R6714	1-249-423-11	CARBON	3.3K	5%	1/4W
R6715	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6716	1-247-903-00	CARBON	1M	5%	1/4W
R6800	1-249-429-11	CARBON	10K	5%	1/4W
R6801	1-249-429-11	CARBON	10K	5%	1/4W
R6802	1-249-429-11	CARBON	10K	5%	1/4W
R6803	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6804	1-208-795-11	METAL CHIP	3.6K	0.5%	1/10W
R6805	1-215-441-00	METAL	6.8K	1%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R6806	1-215-434-00	METAL	3.6K	1%	1/4W
R6807	1-249-383-11	CARBON	1.5	5%	1/4W
R6810	1-214-798-21	METAL	1.8	1%	1/2W
R6811	1-215-913-11	METAL OXIDE	220	5%	3W
R6812	1-247-843-11	CARBON	3.3K	5%	1/4W
R6813	1-214-798-21	METAL	1.8	1%	1/2W
R6814	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6815	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R6816	1-214-915-00	METAL	120K	1%	1/2W
R6818	1-215-485-00	METAL	470K	1%	1/4W
R6819	1-249-421-11	CARBON	2.2K	5%	1/4W
R6820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6822	1-216-461-00	METAL OXIDE	5.6K	5%	2W
R6823	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R6824	1-247-807-31	CARBON	100	5%	1/4W
R6825	1-247-807-31	CARBON	100	5%	1/4W
R6826	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R6827	1-216-459-00	METAL OXIDE	2.7K	5%	2W
R6828	1-249-411-11	CARBON	330	5%	1/4W
R6829	1-249-411-11	CARBON	330	5%	1/4W
R6830	1-247-764-11	CARBON	10K	5%	1/2W
R6831	1-247-764-11	CARBON	10K	5%	1/2W
R6832	1-215-477-00	METAL	220K	1%	1/4W
R6833	1-215-493-00	METAL	1M	1%	1/4W
R6834	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6835	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6836	1-215-905-11	METAL OXIDE	10	5%	3W
R6837	1-215-905-11	METAL OXIDE	10	5%	3W
R6838	1-215-461-00	METAL	47K	1%	1/4W
R6839	1-249-405-11	CARBON	100	5%	1/4W
R6840	8-719-110-39	RD15ES-B1			
R6840	8-719-923-86	MTZJ-T-77-15			
R6841	1-216-434-11	METAL OXIDE	1.8K	5%	1W
R6842	1-215-923-00	METAL OXIDE	10K	5%	3W
R6843	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6844	1-247-807-31	CARBON	100	5%	1/4W
R6845	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R6846	1-260-127-11	CARBON	220K	5%	1/2W
R6847	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6848	1-216-101-00	RES-CHIP	150K	5%	1/10W
R6851	1-260-288-11	CARBON	0.47	5%	1/2W
R6852	1-216-345-11	METAL OXIDE	0.47	5%	1W
R6853	1-260-288-11	CARBON	0.47	5%	1/2W
R6854	1-215-923-00	METAL OXIDE	10K	5%	3W
R6855	1-214-898-81	METAL	24K	1%	1/2W
R6856	1-215-923-00	METAL OXIDE	10K	5%	3W
R6857	1-215-923-00	METAL OXIDE	10K	5%	3W
R6858	1-214-898-81	METAL	24K	1%	1/2W
R6859	1-215-871-11	METAL OXIDE	2.2K	5%	1W
R6860	1-215-923-00	METAL OXIDE	10K	5%	3W
R6861	1-216-295-91	SHORT	0		
R6862	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6863	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R6864	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6865	1-216-101-00	RES-CHIP	150K	5%	1/10W
R6866	1-215-431-00	METAL	2.7K	1%	1/4W
R6867	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6868	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6869	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6870	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6871	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6872	1-260-125-11	CARBON	150K	5%	1/2W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R6873	1-260-125-11	CARBON	150K	5%	1/2W
R6875	1-249-417-11	CARBON	1K	5%	1/4W
R6876	1-260-288-11	CARBON	0.47	5%	1/2W
R6877	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R6878	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6879	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6880	1-215-441-00	METAL	6.8K	1%	1/4W
R6881	1-215-447-00	METAL	12K	1%	1/4W
R6882	1-215-453-00	METAL	22K	1%	1/4W
R6883	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6884	1-249-441-11	CARBON	100K	5%	1/4W
R6885	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6886	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6887	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6888	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6889	1-260-125-11	CARBON	150K	5%	1/2W
R6890	1-260-125-11	CARBON	150K	5%	1/2W
R6891	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6892	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6893	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6894	1-260-133-11	CARBON	680K	5%	1/2W
R6895	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6896	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6897	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6899	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6900	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6901	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6902	1-249-441-11	CARBON	100K	5%	1/4W
R6903	1-215-923-00	METAL OXIDE	10K	5%	3W
R6905	1-249-389-11	CARBON	4.7	5%	1/4W
R6906	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6907	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6908	1-202-719-00	SOLID	1M	20%	1/2W

<RELAY>

RY6601	1-515-840-11	RELAY
RY6602	1-755-357-11	RELAY, AC POWER

<TRANSFORMER>

T6601 ⚠	1-431-732-12	TRANSFORMER, CONVERTER (SRT)
T6602 ⚠	1-435-081-11	TRANSFORMER, CONVERTER (PIT)
T6800	1-429-741-11	TRANSFORMER, DRIVE
T6801	1-433-934-11	TRANSFORMER, FERRITE (DFT)
T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)
T6803 ⚠	1-453-360-11	TRANSFORMER ASSY FLYBACK (NX-4601//J1J4)
T6804	1-433-489-11	TRANSFORMER, FERRITE (HDT)

<THERMISTOR>

TH6601	1-803-971-21	THERMISTOR, POSITIVE
TH6603	1-803-586-11	THERMISTOR, NTC

<VARISTOR>

VD6603	1-803-830-11	VARISTOR (ERZV14D621)

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D1

REF NO.	PART NO.	DESCRIPTION			REMARK
*	A-1333-171-A	D1 BOARD MOUNTED **********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C6101	1-107-714-11	ELECT	10UF	20.00%	50V
C6102	1-109-953-11	ELECT	2.2UF	20.00%	50V
C6103	1-107-714-11	ELECT	10UF	20.00%	50V
C6104	1-126-947-11	ELECT	47UF	20.00%	16V
C6105	1-126-933-11	ELECT	100UF	20.00%	16V
C6108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6109	1-126-947-11	ELECT	47UF	20.00%	25V
C6111	1-126-933-11	ELECT	100UF	20.00%	16V
C6112	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C6113	1-137-493-11	FILM	0.0047UF	5.00%	630V
C6114	1-107-909-11	ELECT	47UF	20.00%	16V
C6115	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C6116	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6117	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6118	1-107-909-11	ELECT	47UF	20.00%	16V
C6121	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6122	1-126-947-11	ELECT	47UF	20.00%	16V
C6123	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6124	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6125	1-128-551-11	ELECT	22UF	20.00%	25V
C6127	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6128	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6129	1-126-964-11	ELECT	10UF	20.00%	50V
C6131	1-126-964-11	ELECT	10UF	20.00%	50V
C6133	1-137-194-81	FILM	0.47UF	5.00%	50V
C6136	1-129-716-00	FILM	0.015UF	5.00%	630V
C6138	1-126-968-11	ELECT	100UF	20.00%	50V
C6139	1-107-902-11	ELECT	1UF	20.00%	50V
C6140	1-126-960-11	ELECT	1UF	20.00%	50V
C6201	1-126-947-11	ELECT	47UF	20.00%	25V
C6202	1-126-947-11	ELECT	47UF	20.00%	16V
C6203	1-126-947-11	ELECT	47UF	20.00%	16V
C6204	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6205	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6206	1-126-964-11	ELECT	10UF	20.00%	50V
C6207	1-126-947-11	ELECT	47UF	20.00%	16V
C6208	1-126-947-11	ELECT	47UF	20.00%	25V
C6209	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6210	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6211	1-126-964-11	ELECT	10UF	20.00%	50V
C6212	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6219	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C6220	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C6350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6351	1-126-947-11	ELECT	47UF	20.00%	16V
C6353	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6355	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6356	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C6358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6361	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6362	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C6365	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C6376	1-126-947-11	ELECT	47UF	20.00%	16V
C6377	1-126-947-11	ELECT	47UF	20.00%	16V
C6378	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6380	1-136-495-11	FILM	0.068UF	5.00%	50V
C6381	1-126-964-11	ELECT	10UF	20.00%	50V
C6385	1-126-947-11	ELECT	47UF	20.00%	16V
C6386	1-126-947-11	ELECT	47UF	20.00%	16V
C6388	1-126-964-11	ELECT	10UF	20.00%	50V
C6392	1-126-947-11	ELECT	47UF	20.00%	16V
C6409	1-126-963-11	ELECT	4.7UF	20.00%	50V
		<CONNECTOR>			
CN6100	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P			
CN6101 *	1-564-525-11	PLUG, CONNECTOR 10P			
CN6103 *	1-564-518-11	PLUG, CONNECTOR 3P			
CN6104 *	1-564-523-11	PLUG, CONNECTOR 8P			
		<DIODE>			
D6101	8-719-510-02	D1NS4			
D6102	8-719-510-02	D1NS4			
D6103	8-719-063-73	DIODE D1NL20U-TR			
D6104	8-719-911-19	1SS119-25			
D6105	8-719-109-60	RD2.7ESB2			
D6106	8-719-510-02	D1NS4			
D6107	8-719-911-19	1SS119-25			
D6108	8-719-911-19	1SS119-25			
D6110	8-719-987-87	ERA85-009			
D6112	8-719-911-19	1SS119-25			
D6133	8-719-911-19	1SS119-25			
D6134	8-719-911-19	1SS119-25			
D6135	8-719-911-19	1SS119-25			
D6201	8-719-109-88	RD5.6ES-B1			
D6210	8-719-109-88	RD5.6ES-B1			
D6350	8-719-914-43	DAN202K			
D6351	8-719-914-43	DAN202K			
D6355	8-719-914-43	DAN202K			
D6404	8-719-914-43	DAN202K			
		<IC>			
IC6101	8-752-053-21	CXA1211M			
IC6102	8-759-450-95	LM393N			
IC6103	8-759-450-95	LM393N			
IC6104	8-759-803-42	LA6500-FA			
IC6105	8-759-450-95	LM393N			
IC6106	8-759-682-42	MM1431ATT			
IC6108	8-759-567-08	MB88141APF-ER			
IC6201	8-759-183-37	CA0007AD			
IC6202	8-759-135-80	UPC358C			
IC6351	8-759-450-95	LM393N			
IC6353	8-759-231-53	TA7805S			
IC6354	8-759-325-48	CA0005AD			
IC6356	8-759-822-38	LA6510			
		<CHIP CONDUCTOR>			
JR6101	1-216-296-11	SHORT	0		
JR6102	1-216-296-11	SHORT	0		
JR6103	1-216-296-11	SHORT	0		
JR6104	1-216-295-91	SHORT	0		
JR6108	1-216-296-11	SHORT	0		
JR6109	1-216-296-11	SHORT	0		
JR6110	1-216-296-11	SHORT	0		

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REF NO.	PART NO.	DESCRIPTION		REMARK
JR6111	1-216-296-11	SHORT	0	
JR6112	1-216-296-11	SHORT	0	
JR6113	1-216-296-11	SHORT	0	
JR6114	1-216-296-11	SHORT	0	
JR6115	1-216-296-11	SHORT	0	
JR6116	1-216-295-91	SHORT	0	
JR6117	1-216-295-91	SHORT	0	
		<COIL>		
L6101	1-416-920-11	INDUCTOR	10MH	
L6102	1-406-989-21	INDUCTOR	10MH	
		<IC LINK>		
PS6101	1-533-589-31	LINK, IC		
		<TRANSISTOR>		
Q6103	8-729-046-33	IRF720-LF49		
Q6104	8-729-230-49	2SC2712-YG		
Q6105	8-729-230-49	2SC2712-YG		
Q6106	8-729-026-49	2SA1037AK-T146-R		
Q6107	8-729-140-93	2SB733-34		
Q6109	8-729-026-49	2SA1037AK-T146-R		
Q6110	1-801-806-11	TR DTC144EKA		
Q6118	8-729-230-49	2SC2712-YG		
Q6124	1-801-806-11	TR DTC144EKA		
Q6125	8-729-230-49	2SC2712-YG		
Q6126	8-729-026-49	2SA1037AK-T146-R		
Q6128	8-729-023-22	2SD2114K		
Q6201	8-729-230-49	2SC2712-YG		
Q6202	8-729-230-49	2SC2712-YG		
Q6203	8-729-422-33	2SD601A-Q-TX		
Q6350	8-729-230-49	2SC2712-YG		
Q6356	8-729-230-49	2SC2712-YG		
Q6405	8-729-026-49	2SA1037AK-T146-R		
Q6455	8-729-230-49	2SC2712-YG		
		<RESISTOR>		
R6101	1-216-025-11	RES-CHIP	100	5% 1/10W
R6103	1-216-025-11	RES-CHIP	100	5% 1/10W
R6105	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6106	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6107	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6108	1-216-073-91	RES-CHIP	10K	5% 1/10W
R6109	1-216-073-91	RES-CHIP	10K	5% 1/10W
R6110	1-216-295-91	SHORT	0	
R6113	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R6114	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6115	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R6116	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6117	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R6118	1-208-810-11	METAL CHIP	15K	0.5% 1/10W
R6119	1-208-796-11	METAL CHIP	3.9K	0.5% 1/10W
R6120	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6121	1-216-490-11	METAL OXIDE	39K	5% 3W
R6122	1-216-295-91	SHORT	0	
R6123	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R6124	1-208-800-11	METAL CHIP	5.6K	0.5% 1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK
R6126	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6127	1-208-832-11	METAL CHIP	120K	0.5% 1/10W
R6128	1-208-838-91	METAL CHIP	220K	0.5% 1/10W
R6129	1-216-353-00	METAL OXIDE	2.2	5% 1W
R6130	1-216-073-91	RES-CHIP	10K	5% 1/10W
R6131	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6133	1-208-812-11	METAL CHIP	18K	0.5% 1/10W
R6134	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6135	1-216-073-91	RES-CHIP	10K	5% 1/10W
R6136	1-260-328-11	CARBON	1K	5% 1/2W
R6137	1-216-049-11	RES-CHIP	1K	5% 1/10W
R6138	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R6139	1-208-808-11	METAL CHIP	12K	0.5% 1/10W
R6140	1-216-077-91	RES-CHIP	15K	5% 1/10W
R6141	1-208-830-11	METAL CHIP	100K	0.5% 1/10W
R6142	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6143	1-208-792-11	METAL CHIP	2.7K	0.5% 1/10W
R6146	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6149	1-208-828-11	METAL CHIP	82K	0.5% 1/10W
R6150	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6151	1-216-049-11	RES-CHIP	1K	5% 1/10W
R6152	1-216-081-00	RES-CHIP	22K	5% 1/10W
R6153	1-216-105-91	RES-CHIP	220K	5% 1/10W
R6154	1-208-808-11	METAL CHIP	12K	0.5% 1/10W
R6155	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R6156	1-216-077-91	RES-CHIP	15K	5% 1/10W
R6157	1-216-089-91	RES-CHIP	47K	5% 1/10W
R6158	1-216-689-11	RES-CHIP	39K	5% 1/10W
R6159	1-208-797-11	METAL CHIP	4.3K	0.5% 1/10W
R6160	1-216-073-91	RES-CHIP	10K	5% 1/10W
R6161	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R6162	1-216-049-11	RES-CHIP	1K	5% 1/10W
R6168	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R6169	1-208-776-11	METAL CHIP	560	0.5% 1/10W
R6170	1-216-037-00	RES-CHIP	330	5% 1/10W
R6171	1-216-113-00	RES-CHIP	470K	5% 1/10W
R6172	1-216-105-91	RES-CHIP	220K	5% 1/10W
R6173	1-216-093-91	RES-CHIP	68K	5% 1/10W
R6174	1-208-812-11	METAL CHIP	18K	0.5% 1/10W
R6175	1-208-816-11	METAL CHIP	27K	0.5% 1/10W
R6176	1-249-389-11	CARBON	4.7	5% 1/4W
R6177	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R6178	1-249-389-11	CARBON	4.7	5% 1/4W
R6180	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6190	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6192	1-216-295-91	SHORT	0	
R6195	1-208-800-11	METAL CHIP	5.6K	0.5% 1/10W
R6196	1-249-377-11	CARBON	0.47	5% 1/4W
R6197	1-216-099-00	RES-CHIP	120K	5% 1/10W
R6198	1-216-093-91	RES-CHIP	68K	5% 1/10W
R6200	1-208-826-11	METAL CHIP	68K	0.5% 1/10W
R6201	1-247-750-11	CARBON	680	5% 1/2W
R6202	1-216-061-91	RES-CHIP	3.3K	5% 1/10W
R6203	1-215-906-11	METAL OXIDE	15	5% 3W
R6204	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R6206	1-216-033-00	RES-CHIP	220	5% 1/10W
R6207	1-208-794-11	METAL CHIP	3.3K	0.5% 1/10W
R6208	1-208-806-11	METAL CHIP	10K	0.5% 1/10W
R6209	1-216-107-00	RES-CHIP	270K	5% 1/10W
R6210	1-216-057-00	RES-CHIP	2.2K	5% 1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R6211	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6212	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6213	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6215	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R6216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6217	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6218	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R6219	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6220	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6221	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6222	1-216-295-91	SHORT	0		
R6223	1-216-295-91	SHORT	0		
R6224	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6225	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6226	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6227	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6324	1-216-017-91	RES-CHIP	47	5%	1/10W
R6325	1-216-017-91	RES-CHIP	47	5%	1/10W
R6326	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6327	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6350	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6357	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6359	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6360	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6361	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6367	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6368	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6375	1-216-041-00	RES-CHIP	470	5%	1/10W
R6378	1-215-473-00	METAL	150K	1%	1/4W
R6379	1-216-295-91	SHORT	0		
R6382	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6385	1-216-295-91	SHORT	0		
R6386	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6391	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6394	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6413	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6416	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6418	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6419	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6420	1-216-111-00	RES-CHIP	390K	5%	1/10W
R6433	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6438	1-215-437-00	METAL	4.7K	1%	1/4W
R6442	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6456	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6457	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R6458	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		<VARIABLE RESISTOR>			
RV6100	1-241-785-11	RES, ADJ, CERMET 10K			

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* A-1333-172-A DH BOARD MOUNTED
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4-382-854-11 SCREW (M3X10), P, SW (+)

REF NO.	PART NO.	DESCRIPTION		REMARK	
		<CAPACITOR>			
C3801	1-126-964-11	ELECT	10UF	20.00%	50V
C3804	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
C3805	1-126-964-11	ELECT	10UF	20.00%	50V
C3807	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
C3816	1-126-964-11	ELECT	10UF	20.00%	50V
C3819	1-126-960-11	ELECT	1UF	20.00%	50V
C3822	1-136-165-00	FILM	0.1UF	5.00%	50V
		<CONNECTOR>			
CN3802 *	1-564-509-11	PLUG, CONNECTOR 6P			
		<DIODE>			
D3805	8-719-911-19	1SS119-25			
		<IC>			
IC3805	8-759-822-38	LA6510			
IC3807	1-418-597-11	SENSOR UNIT, MAGNETIC			
		<TRANSISTOR>			
Q3806	8-729-119-78	2SC2785-HFE			
Q3807	8-729-030-02	DTC144ESA			
Q3808	8-729-030-02	DTC144ESA			
Q3809	8-729-119-78	2SC2785-HFE			
Q3812	8-729-119-78	2SC2785-HFE			
		<RESISTOR>			
R3802	1-249-417-11	CARBON	1K	5%	1/4W
R3803	1-249-417-11	CARBON	1K	5%	1/4W
R3804	1-215-428-00	METAL	2K	1%	1/4W
R3805	1-215-423-00	METAL	1.2K	1%	1/4W
R3808	1-247-883-00	CARBON	150K	5%	1/4W
R3809	1-215-461-00	METAL	47K	1%	1/4W
R3810	1-249-425-11	CARBON	4.7K	5%	1/4W
R3814	1-249-411-11	CARBON	330	5%	1/4W
R3823	1-249-395-11	CARBON	15	5%	1/4W
R3825	1-249-417-11	CARBON	1K	5%	1/4W
R3828	1-249-377-11	CARBON	0.47	5%	1/4W
R3839	1-249-429-11	CARBON	10K	5%	1/4W
R3845	1-249-425-11	CARBON	4.7K	5%	1/4W
R3849	1-249-377-11	CARBON	0.47	5%	1/4W
R3852	1-249-441-11	CARBON	100K	5%	1/4W
R3854	1-249-429-11	CARBON	10K	5%	1/4W
R3858	1-215-451-00	METAL	18K	1%	1/4W
R3859	1-215-417-00	METAL	680	1%	1/4W
R3860	1-215-405-00	METAL	220	1%	1/4W
R3861	1-215-461-00	METAL	47K	1%	1/4W
R3862	1-249-429-11	CARBON	10K	5%	1/4W

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DH E

REF NO.	PART NO.	DESCRIPTION			
	* A-1333-173-A	E BOARD MOUNTED			
		**********			
		<CAPACITOR>			
C4301	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4302	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C4308	1-126-960-11	ELECT	1UF	20.00%	50V
C4309	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C4316	1-126-947-11	ELECT	47UF	20.00%	16V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4320	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4321	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4322	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4325	1-163-093-00	CERAMIC CHIP	10PF	5.00%	50V
C4326	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4327	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4328	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4329	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4330	1-136-244-11	FILM	0.1UF	5.00%	50V
C4331	1-126-959-11	ELECT	0.47UF	20.00%	50V
C4332	1-136-161-00	FILM	0.047UF	5.00%	50V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4334	1-126-947-11	ELECT	47UF	20.00%	16V
C4336	1-126-947-11	ELECT	47UF	20.00%	16V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4339	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C4340	1-126-947-11	ELECT	47UF	20.00%	16V
C4341	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4343	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4344	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C4345	1-126-947-11	ELECT	47UF	20.00%	16V
C4346	1-164-346-11	CERAMIC CHIP	1UF		16V
C4347	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4348	1-164-346-11	CERAMIC CHIP	1UF		16V
C4349	1-164-346-11	CERAMIC CHIP	1UF		16V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4351	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C4352	1-126-947-11	ELECT	47UF	20.00%	16V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4355	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C4360	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4363	1-126-947-11	ELECT	47UF	20.00%	16V
C4364	1-126-947-11	ELECT	47UF	20.00%	16V
C4366	1-104-760-11	CERAMIC CHIP	0.047UF	10.00%	50V
C4367	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4369	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4370	1-126-947-11	ELECT	47UF	20.00%	16V
C4371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4378	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V

REF NO.	PART NO.	DESCRIPTION			
C4800	1-136-165-00	FILM	0.1UF	5.00%	50V
C4801	1-136-161-00	FILM	0.047UF	5.00%	50V
C4802	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4803	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4804	1-126-947-11	ELECT	47UF	20.00%	16V
C4805	1-126-964-11	ELECT	10UF	20.00%	50V
C4806	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C4807	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C4808	1-136-165-00	FILM	0.1UF	5.00%	50V
C4809	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4810	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C4811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4812	1-126-947-11	ELECT	47UF	20.00%	16V
C4813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4814	1-126-947-11	ELECT	47UF	20.00%	16V
C4817	1-126-947-11	ELECT	47UF	20.00%	16V
C4820	1-107-909-11	ELECT	47UF	20.00%	16V
C4823	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C4824	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C4825	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4833	1-126-964-11	ELECT	10UF	20.00%	50V
C4834	1-126-933-11	ELECT	100UF	20.00%	16V
C4835	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4836	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4837	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4838	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4905	1-126-964-11	ELECT	10UF	20.00%	50V
C4906	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
		<CONNECTOR>			
CN4101	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P			
CN4500 *	1-564-512-11	PLUG, CONNECTOR 9P			
CN4502 *	1-564-506-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D4302	8-719-110-41	RD15ES-B2			
D4303	8-719-109-72	RD3.9ES-B2			
D4304	8-719-069-60	UDZSTE-179.1B			
D4305	8-719-069-60	UDZSTE-179.1B			
D4311	8-719-914-43	DAN202K			
D4312	8-719-914-43	DAN202K			
D4313	8-719-401-63	MA3062M-TX			
D4314	8-719-914-43	DAN202K			
D4800	8-719-914-43	DAN202K			
D4801	8-719-914-43	DAN202K			
D4802	8-719-109-81	RD4.7ESB2			
D4805	8-719-914-43	DAN202K			
D4808	8-719-914-43	DAN202K			
D4809	8-719-914-43	DAN202K			
D4811	1-249-381-11	CARBON	1	5%	1/4W
D4812	8-719-911-19	1SS119-25			
D4812	8-719-991-33	1SS133T-77			
D4813	8-719-914-43	DAN202K			
D4814	8-719-914-43	DAN202K			
D4815	8-719-109-54	RD2.2ES-B2			
D4815	8-719-109-54	RD2.2ES-B2			
D4816	8-719-911-19	1SS119-25			
D4817	8-719-109-89	RD5.6ESB2			
D4818	8-719-914-43	DAN202K			
D4900	8-719-911-19	1SS119-25			

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REF NO.	PART NO.	DESCRIPTION		REMARK
		<FERRITE BEAD>		
FB4387	1-216-295-91	SHORT	0	
FB4388	1-216-295-91	SHORT	0	
FB4389	1-216-295-91	SHORT	0	
		<IC>		
IC4301	8-752-090-87	CXA2100AQ		
IC4800	8-759-450-95	LM393N		
IC4801	8-759-450-95	LM393N		
IC4802	8-759-638-79	NJM3404AD-W		
IC4803	8-759-135-80	UPC358C		
		<CHIP CONDUCTOR>		
JR4301	1-216-295-91	SHORT	0	
		<COIL>		
L4301	1-412-029-11	INDUCTOR	10UH	
L4302	1-412-029-11	INDUCTOR	10UH	
L4303	1-412-029-11	INDUCTOR	10UH	
L4304	1-412-029-11	INDUCTOR	10UH	
L4305	1-412-029-11	INDUCTOR	10UH	
L4306	1-412-029-11	INDUCTOR	10UH	
L4308	1-412-031-11	INDUCTOR	47UH	
L4309	1-412-031-11	INDUCTOR	47UH	
L4311	1-412-002-31	INDUCTOR	4.7UH	
		<TRANSISTOR>		
Q4301	8-729-230-49	2SC2712-YG		
Q4302	8-729-424-02	2SB709A-QRS-TX		
Q4303	8-729-120-28	2SC1623-L5L6		
Q4304	8-729-230-49	2SC2712-YG		
Q4305	8-729-230-49	2SC2712-YG		
Q4307	8-729-424-02	2SB709A-QRS-TX		
Q4308	8-729-424-02	2SB709A-QRS-TX		
Q4310	8-729-424-02	2SB709A-QRS-TX		
Q4315	1-801-806-11	TR DTC144EKA		
Q4316	8-729-230-49	2SC2712-YG		
Q4317	8-729-900-53	DTC114EK		
Q4319	8-729-424-02	2SB709A-QRS-TX		
Q4320	8-729-424-02	2SB709A-QRS-TX		
Q4321	8-729-424-02	2SB709A-QRS-TX		
Q4322	8-729-424-02	2SB709A-QRS-TX		
Q4800	8-729-230-49	2SC2712-YG		
Q4801	8-729-230-49	2SC2712-YG		
Q4802	8-729-230-49	2SC2712-YG		
Q4803	8-729-230-49	2SC2712-YG		
Q4804	8-729-230-49	2SC2712-YG		
Q4805	8-729-230-49	2SC2712-YG		
Q4806	8-729-230-49	2SC2712-YG		
Q4807	8-729-230-49	2SC2712-YG		
Q4808	8-729-424-02	2SB709A-QRS-TX		
Q4809	8-729-424-02	2SB709A-QRS-TX		
Q4810	8-729-230-49	2SC2712-YG		
Q4811	8-729-230-49	2SC2712-YG		
Q4812	8-729-424-02	2SB709A-QRS-TX		
Q4813	8-729-424-02	2SB709A-QRS-TX		
Q4814	8-729-424-02	2SB709A-QRS-TX		
Q4815	8-729-424-02	2SB709A-QRS-TX		
Q4816	8-729-424-02	2SB709A-QRS-TX		
Q4817	8-729-230-49	2SC2712-YG		
Q4818	8-729-424-02	2SB709A-QRS-TX		
Q4820	8-729-230-49	2SC2712-YG		
Q4821	1-801-806-11	TR DTC144EKA		
Q4822	8-729-230-49	2SC2712-YG		
Q4823	8-729-424-02	2SB709A-QRS-TX		
Q4824	8-729-424-02	2SB709A-QRS-TX		
Q4825	8-729-230-49	2SC2712-YG		
Q4826	8-729-230-49	2SC2712-YG		
Q4906	8-729-422-33	2SD601A-Q-TX		
Q4907	8-729-424-02	2SB709A-QRS-TX		
Q4908	8-729-424-02	2SB709A-QRS-TX		
Q4909	8-729-422-33	2SD601A-Q-TX		
Q4910	8-729-424-02	2SB709A-QRS-TX		
		<RESISTOR>		
R4301	1-216-025-11	RES-CHIP	100	5% 1/10W
R4302	1-216-025-11	RES-CHIP	100	5% 1/10W
R4303	1-216-025-11	RES-CHIP	100	5% 1/10W
R4304	1-216-025-11	RES-CHIP	100	5% 1/10W
R4305	1-216-025-11	RES-CHIP	100	5% 1/10W
R4306	1-216-025-11	RES-CHIP	100	5% 1/10W
R4307	1-216-025-11	RES-CHIP	100	5% 1/10W
R4308	1-216-295-91	SHORT	0	
R4310	1-216-295-91	SHORT	0	
R4312	1-216-295-91	SHORT	0	
R4313	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R4314	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R4316	1-216-069-00	RES-CHIP	6.8K	5% 1/10W
R4317	1-216-081-00	RES-CHIP	22K	5% 1/10W
R4318	1-208-804-11	METAL CHIP	8.2K	0.5% 1/10W
R4319	1-208-804-11	METAL CHIP	8.2K	0.5% 1/10W
R4320	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R4321	1-216-298-00	RES-CHIP	2.2	5% 1/10W
R4322	1-216-097-11	RES-CHIP	100K	5% 1/10W
R4323	1-208-814-91	METAL CHIP	22K	0.5% 1/10W
R4324	1-208-798-11	METAL CHIP	4.7K	0.5% 1/10W
R4325	1-208-818-11	METAL CHIP	33K	0.5% 1/10W
R4326	1-208-826-11	METAL CHIP	68K	0.5% 1/10W
R4327	1-208-822-11	METAL CHIP	47K	0.5% 1/10W
R4329	1-208-782-11	METAL CHIP	1K	0.5% 1/10W
R4330	1-216-089-91	RES-CHIP	47K	5% 1/10W
R4331	1-216-025-11	RES-CHIP	100	5% 1/10W
R4332	1-216-025-11	RES-CHIP	100	5% 1/10W
R4333	1-216-025-11	RES-CHIP	100	5% 1/10W
R4334	1-216-049-11	RES-CHIP	1K	5% 1/10W
R4335	1-216-025-11	RES-CHIP	100	5% 1/10W
R4336	1-216-025-11	RES-CHIP	100	5% 1/10W
R4337	1-216-025-11	RES-CHIP	100	5% 1/10W
R4338	1-216-041-00	RES-CHIP	470	5% 1/10W
R4339	1-216-051-00	RES-CHIP	1.2K	5% 1/10W
R4341	1-216-295-91	SHORT	0	
R4343	1-216-025-11	RES-CHIP	100	5% 1/10W
R4344	1-216-025-11	RES-CHIP	100	5% 1/10W
R4345	1-216-075-00	RES-CHIP	12K	5% 1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5% 1/10W
R4347	1-216-025-11	RES-CHIP	100	5% 1/10W
R4348	1-216-025-11	RES-CHIP	100	5% 1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R4349	1-216-041-00	RES-CHIP	470	5%	1/10W
R4350	1-216-025-11	RES-CHIP	100	5%	1/10W
R4351	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4352	1-216-041-00	RES-CHIP	470	5%	1/10W
R4353	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4355	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4356	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4357	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4358	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W
R4360	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4361	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R4362	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4363	1-216-025-11	RES-CHIP	100	5%	1/10W
R4365	1-216-025-11	RES-CHIP	100	5%	1/10W
R4366	1-216-025-11	RES-CHIP	100	5%	1/10W
R4367	1-216-025-11	RES-CHIP	100	5%	1/10W
R4368	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4369	1-216-025-11	RES-CHIP	100	5%	1/10W
R4370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4372	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4373	1-216-295-91	SHORT	0		
R4374	1-216-025-11	RES-CHIP	100	5%	1/10W
R4375	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4376	1-216-025-11	RES-CHIP	100	5%	1/10W
R4377	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4380	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4381	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R4382	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4383	1-216-079-00	RES-CHIP	18K	5%	1/10W
R4384	1-216-025-11	RES-CHIP	100	5%	1/10W
R4387	1-216-295-91	SHORT	0		
R4388	1-216-295-91	SHORT	0		
R4389	1-216-295-91	SHORT	0		
R4395	1-216-295-91	SHORT	0		
R4396	1-216-295-91	SHORT	0		
R4397	1-216-295-91	SHORT	0		
R4399	1-216-025-11	RES-CHIP	100	5%	1/10W
R4401	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4408	1-216-025-11	RES-CHIP	100	5%	1/10W
R4409	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4410	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4411	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4412	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4518	1-216-025-11	RES-CHIP	100	5%	1/10W
R4519	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4520	1-216-025-11	RES-CHIP	100	5%	1/10W
R4521	1-216-025-11	RES-CHIP	100	5%	1/10W
R4800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4801	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4802	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4803	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4804	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4805	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4806	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4807	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4810	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4811	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4812	1-216-295-91	SHORT	0		

REF NO.		PART NO.	DESCRIPTION		REMARK	
R4813		1-216-089-91	RES-CHIP	47K	5%	1/10W
R4814		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4815		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4816		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4817	*	1-208-852-11	METAL CHIP	820K	0.5%	1/10W
R4818		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4819		1-216-049-11	RES-CHIP	1K	5%	1/10W
R4820		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4821		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4822		1-216-049-11	RES-CHIP	1K	5%	1/10W
R4823		1-216-049-11	RES-CHIP	1K	5%	1/10W
R4824		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4825		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4826		1-216-049-11	RES-CHIP	1K	5%	1/10W
R4827		1-216-295-91	SHORT	0		
R4828		1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4829		1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4831		1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4832		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4833		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4834		1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4835		1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4836		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4837		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4838		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4839		1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R4840		1-216-295-91	SHORT	0		
R4841		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4842		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4843		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4844		1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R4845		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4846		1-216-295-91	SHORT	0		
R4856		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4857		1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4858		1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4859		1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4860		1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R4861		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4862		1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R4864		1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W
R4865		1-208-770-11	METAL CHIP	330	0.5%	1/10W
R4866		1-216-081-00	RES-CHIP	22K	5%	1/10W
R4869		1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4871		1-208-828-11	METAL CHIP	82K	0.5%	1/10W
R4872		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4874		1-216-295-91	SHORT	0		
R4875		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4877		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4878		1-208-838-91	METAL CHIP	220K	0.5%	1/10W
R4879		1-216-105-91	RES-CHIP	220K	5%	1/10W
R4881		1-216-295-91	SHORT	0		
R4882		1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R4883		1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R4884		1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4887		1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4889		1-216-025-11	RES-CHIP	100	5%	1/10W
R4891		1-216-025-11	RES-CHIP	100	5%	1/10W
R4892		1-216-295-91	SHORT	0		
R4894		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4895		1-216-073-91	RES-CHIP	10K	5%	1/10W
R4897		1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

E **F1** **F2** **H1**

REF NO.		PART NO.	DESCRIPTION		REMARK	
R4898		1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R4899		1-216-025-11	RES-CHIP	100	5%	1/10W
R4908		1-216-049-11	RES-CHIP	1K	5%	1/10W
R4909		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4910		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4911		1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R4912		1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4913		1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4914		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4915		1-216-025-11	RES-CHIP	100	5%	1/10W
R4916		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4917		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4918		1-216-089-91	RES-CHIP	47K	5%	1/10W
R4921		1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4922		1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4924		1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R4925		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4926		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4927		1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R4989		1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4991		1-216-051-00	RES-CHIP	1.2K	5%	1/10W
			<CRYSTAL>			
X4300		1-767-127-11	VIBRATOR, CERAMIC			
**********						
		A-1241-523-A	F1 BOARD MOUNTED **********			
		1-533-223-11	HOLDER, FUSE			
		4-085-498-01	LABEL, FUSE			
	*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
			<CAPACITOR>			
C1601	⚠	1-104-708-51	MYLAR	0.47UF	20.00%	250V
C1602	⚠	1-109-835-51	MYLAR	0.68UF	20.00%	250V
C1603	⚠	1-117-703-51	CERAMIC	0.0047UF	99%	250V
			<CONNECTOR>			
CN1601	⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1602	⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1603		1-695-915-11	TAB (CONTACT)			
CN1604		1-695-915-11	TAB (CONTACT)			
			<FUSE>			
F1601		1-532-325-00	FUSE, TIME-LAG 6.3A/250V			
			<FERRITE BEAD>			
FB1601		1-410-397-21	FERRITE	1.1UH		
FB1602		1-410-397-21	FERRITE	1.1UH		
FB1603		1-410-397-21	FERRITE	1.1UH		
FB1604		1-410-397-21	FERRITE	1.1UH		

REF NO.		PART NO.	DESCRIPTION		REMARK	
			<RESISTOR>			
R1601	⚠	1-202-885-91	SOLID	1M	10%	1/2W
			<TRANSFORMER>			
T1601		1-433-900-11	TRANSFORMER, LINE FILTER			
T1602		1-433-900-11	TRANSFORMER, LINE FILTER			
			<VARISTOR>			
VDR161		1-803-830-11	VARISTOR (ERZV14D621)			
**********						
	*	A-1241-510-A	F2 BOARD MOUNTED **********			
			<CONNECTOR>			
CN1651		1-580-843-11	PIN, CONNECTOR (POWER)			
CN1652	*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
			<SWITCH>			
S1651	⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			
**********						
	*	A-1377-035-A	H1 BOARD MOUNTED **********			
	*	4-055-304-01	HOLDER, LED			
			<CAPACITOR>			
C1910		1-126-947-11	ELECT	47UF	20.00%	16V
C1911		1-126-947-11	ELECT	47UF	20.00%	16V
C1912		1-102-824-00	CERAMIC	470PF	5.00%	50V
			<CONNECTOR>			
CN1901	*	1-564-520-11	PLUG, CONNECTOR 5P			
			<DIODE>			
D1906		8-719-045-19	SPB-26MVWF			
			<IC>			
IC1901		8-742-134-01	SBX1981-51RP			
			<TRANSISTOR>			
Q1901		8-729-030-02	DTC144ESA			
Q1902		8-729-030-02	DTC144ESA			

H1 H2 H3 J

REF NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R1911	1-249-411-11	CARBON	330	5%	1/4W
R1913	1-249-429-11	CARBON	10K	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1915	1-249-429-11	CARBON	10K	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W
**********					
*	A-1377-036-A	H2 BOARD MOUNTED			
		**********			
		<CAPACITOR>			
C1930	1-136-153-00	FILM	0.01UF	5.00%	50V
C1932	1-136-153-00	FILM	0.01UF	5.00%	50V
C1935	1-102-824-00	CERAMIC	470PF	5.00%	50V
C1938	1-102-824-00	CERAMIC	470PF	5.00%	50V
		<CONNECTOR>			
CN1932 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN1934 *	1-564-515-11	PLUG, CONNECTOR 12P			
		<DIODE>			
D1930	8-719-929-15	HZS9.1NB2			
D1935	8-719-929-15	HZS9.1NB2			
		<JACK>			
J1931	1-770-786-11	JACK			
J1932	1-537-744-11	TERMINAL, S			
J1933	1-770-329-11	JACK, PIN 3P			
		<COIL>			
L1931	1-408-603-31	INDUCTOR	10UH		
L1932	1-408-603-31	INDUCTOR	10UH		
		<RESISTOR>			
R1933	1-247-895-91	CARBON	470K	5%	1/4W
R1934	1-247-807-31	CARBON	100	5%	1/4W
R1935	1-247-807-31	CARBON	100	5%	1/4W
R1936	1-247-895-91	CARBON	470K	5%	1/4W
R1952	1-249-421-11	CARBON	2.2K	5%	1/4W
		<SWITCH>			
S1931	1-692-431-21	SWITCH, TACTILE			
**********					

REF NO.	PART NO.	DESCRIPTION			REMARK
*	A-1372-730-A	H3 BOARD MOUNTED			
		**********			
		<CONNECTOR>			
CN1980 *	1-564-518-11	PLUG, CONNECTOR 3P			
		<RESISTOR>			
R1970	1-249-416-11	CARBON	820	5%	1/4W
R1971	1-249-417-11	CARBON	1K	5%	1/4W
R1972	1-249-418-11	CARBON	1.2K	5%	1/4W
R1973	1-249-420-11	CARBON	1.8K	5%	1/4W
R1974	1-247-843-11	CARBON	3.3K	5%	1/4W
R1975	1-249-427-11	CARBON	6.8K	5%	1/4W
R1976	1-249-432-11	CARBON	18K	5%	1/4W
		<SWITCH>			
S1972	1-572-198-11	SWITCH, KEYBOARD			
S1973	1-572-198-11	SWITCH, KEYBOARD			
S1974	1-572-198-11	SWITCH, KEYBOARD			
S1975	1-572-198-11	SWITCH, KEYBOARD			
S1976	1-572-198-11	SWITCH, KEYBOARD			
S1977	1-572-198-11	SWITCH, KEYBOARD			
S1978	1-572-198-11	SWITCH, KEYBOARD			
S1979	1-572-198-11	SWITCH, KEYBOARD			
**********					
*	A-1395-042-A	J BOARD COMPLETE			
		**********			
	3-350-679-01	WASHER, FIBER			
		<CAPACITOR>			
C8300	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8301	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8302	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8303	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8304	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8305	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8306	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8307	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8308	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8309	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8310	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8311	1-164-346-11	CERAMIC CHIP	1UF		16V
C8312	1-164-346-11	CERAMIC CHIP	1UF		16V
C8313	1-164-346-11	CERAMIC CHIP	1UF		16V
C8314	1-164-346-11	CERAMIC CHIP	1UF		16V
C8315	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8316	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8318	1-164-346-11	CERAMIC CHIP	1UF		16V
C8319	1-164-346-11	CERAMIC CHIP	1UF		16V
C8320	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8321	1-117-720-11	CERAMIC CHIP	4.7UF		10V

J

REF NO.	PART NO.	DESCRIPTION		REMARK	
C8322	1-164-346-11	CERAMIC CHIP	1UF		16V
C8323	1-164-346-11	CERAMIC CHIP	1UF		16V
C8324	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8325	1-126-935-11	ELECT	470UF	20.00%	16V
C8326	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8327	1-164-346-11	CERAMIC CHIP	1UF		16V
C8328	1-164-346-11	CERAMIC CHIP	1UF		16V
C8329	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V
C8330	1-164-346-11	CERAMIC CHIP	1UF		16V
C8331	1-164-346-11	CERAMIC CHIP	1UF		16V
C8333	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8334	1-126-947-11	ELECT	47UF	20.00%	16V
C8335	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8336	1-126-947-11	ELECT	47UF	20.00%	16V
C8337	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8338	1-164-346-11	CERAMIC CHIP	1UF		16V
C8339	1-164-346-11	CERAMIC CHIP	1UF		16V
C8340	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8341	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8342	1-126-964-11	ELECT	10UF	20.00%	50V
C8343	1-126-947-11	ELECT	47UF	20.00%	16V
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8352	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8353	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8356	1-164-346-11	CERAMIC CHIP	1UF		16V
C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8361	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8363	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8364	1-126-947-11	ELECT	47UF	20.00%	16V
C8365	1-126-947-11	ELECT	47UF	20.00%	16V
C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8367	1-126-947-11	ELECT	47UF	20.00%	16V
C8368	1-126-947-11	ELECT	47UF	20.00%	16V
C8369	1-126-947-11	ELECT	47UF	20.00%	16V
C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8372	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8374	1-164-346-11	CERAMIC CHIP	1UF		16V
C8375	1-126-964-11	ELECT	10UF	20.00%	50V
C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8382	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8386	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8390	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8391	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8396	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8399	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8401	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8402	1-164-346-11	CERAMIC CHIP	1UF		16V
C8403	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8406	1-126-947-11	ELECT	47UF	20.00%	16V
C8407	1-126-947-11	ELECT	47UF	20.00%	16V
C8408	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8410	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8411	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8412	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8413	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8414	1-126-947-11	ELECT	47UF	20.00%	16V
C8415	1-164-346-11	CERAMIC CHIP	1UF		16V
C8416	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8417	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8418	1-126-964-11	ELECT	10UF	20.00%	50V
C8419	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8424	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8425	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8430	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8437	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8438	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8439	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8441	1-164-346-11	CERAMIC CHIP	1UF		16V
C8442	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8443	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8444	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8445	1-164-346-11	CERAMIC CHIP	1UF		16V
C8446	1-126-947-11	ELECT	47UF	20.00%	16V
C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8451	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8455	1-126-947-11	ELECT	47UF	20.00%	16V
C8456	1-126-947-11	ELECT	47UF	20.00%	16V
C8457	1-126-947-11	ELECT	47UF	20.00%	16V
C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8464	1-126-947-11	ELECT	47UF	20.00%	16V
C8465	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8466	1-247-807-31	CARBON	100	5%	1/4W
C8468	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8469	1-247-807-31	CARBON	100	5%	1/4W
C8471	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

<CONNECTOR>

CN8301	* 1-564-524-11	PLUG, CONNECTOR 9P	
CN8302	1-695-915-11	TAB (CONTACT)	
CN8304	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	

<DIODE>

D8101	8-719-404-50	MA111-TX	
D8102	1-216-295-91	SHORT	0
D8301	8-719-158-35	RD9.1S-B	
D8302	8-719-158-35	RD9.1S-B	
D8303	8-719-158-35	RD9.1S-B	
D8304	8-719-158-35	RD9.1S-B	
D8305	8-719-158-35	RD9.1S-B	
D8306	8-719-158-35	RD9.1S-B	
D8307	8-719-158-35	RD9.1S-B	
D8308	8-719-158-35	RD9.1S-B	

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REF NO.	PART NO.	DESCRIPTION	REMARK
D8309	8-719-158-35	RD9.1S-B	
D8310	8-719-158-35	RD9.1S-B	
D8311	8-719-158-35	RD9.1S-B	
D8312	8-719-158-35	RD9.1S-B	
D8313	8-719-158-35	RD9.1S-B	
D8314	8-719-158-35	RD9.1S-B	
D8315	8-719-067-40	STZ6.8N-T146	
D8316	8-719-067-40	STZ6.8N-T146	
D8317	8-719-067-40	STZ6.8N-T146	
D8318	8-719-158-35	RD9.1S-B	
D8319	8-719-158-35	RD9.1S-B	
D8320	8-719-158-35	RD9.1S-B	
D8321	8-719-158-35	RD9.1S-B	
D8322	8-719-158-35	RD9.1S-B	
D8323	8-719-158-35	RD9.1S-B	
D8324	8-719-158-35	RD9.1S-B	
D8325	8-719-158-35	RD9.1S-B	
D8331	8-719-041-97	MA113-(TX)	
		<FERRITE BEAD>	
FB8101	1-216-295-91	SHORT 0	
FB8101	1-414-598-11	FERRITE 0UH	
		<FILTER>	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8305	1-236-071-11	ENCAPSULATED COMPONENT	
FL8307	1-236-071-11	ENCAPSULATED COMPONENT	
FL8308	1-236-071-11	ENCAPSULATED COMPONENT	
FL8309	1-236-071-11	ENCAPSULATED COMPONENT	
FL8311	1-236-071-11	ENCAPSULATED COMPONENT	
FL8312	1-236-071-11	ENCAPSULATED COMPONENT	
FL8313	1-236-071-11	ENCAPSULATED COMPONENT	
FL8314	1-233-877-11	FILTER, LOW PASS	
FL8315	1-233-504-21	FILTER, LOW PASS	
FL8316	1-233-504-21	FILTER, LOW PASS	
		<IC>	
IC8302	8-752-080-04	CXA2069Q	
IC8304	8-759-576-72	LF50CDT-TR	
IC8305	8-759-576-74	LF90CDT-TR	
IC8306	8-752-094-47	CXA2123AQ-T6	
IC8308	8-752-094-47	CXA2123AQ-T6	
IC8309	8-759-337-26	MM1115XFBE	
IC8310	8-759-572-04	TDA9178T/N1.118	
IC8311	8-759-485-79	TC7SET08FU(TE85L	
IC8312	8-759-485-79	TC7SET08FU(TE85L	
		<JACK>	
J8106	1-793-787-11	JACK BLOCK, PIN 1P	
J8301	1-774-748-11	TERMINAL BLOCK, S	
J8302	1-774-746-11	JACK BLOCK, PIN	
J8303	1-774-746-11	JACK BLOCK, PIN	
J8304	1-774-746-11	JACK BLOCK, PIN	
J8305	1-695-444-11	PIN JACK BLOCK 3P	
J8307	1-565-838-11	JACK BLOCK, PIN 2P	

REF NO.	PART NO.	DESCRIPTION			REMARK
		<CHIP CONDUCTOR>			
JR8301	1-216-295-91	SHORT	0		
JR8302	1-216-295-91	SHORT	0		
		<TRANSISTOR>			
Q8301	8-729-026-49	2SA1037AK-T146-R			
Q8302	8-729-230-49	2SC2712-YG			
Q8303	8-729-230-49	2SC2712-YG			
Q8304	8-729-230-49	2SC2712-YG			
Q8305	8-729-026-49	2SA1037AK-T146-R			
Q8306	8-729-230-49	2SC2712-YG			
Q8307	8-729-230-49	2SC2712-YG			
Q8308	8-729-230-49	2SC2712-YG			
Q8309	8-729-230-49	2SC2712-YG			
Q8310	8-729-230-49	2SC2712-YG			
Q8312	8-729-230-49	2SC2712-YG			
Q8319	8-729-026-49	2SA1037AK-T146-R			
Q8320	8-729-026-49	2SA1037AK-T146-R			
Q8321	8-729-026-49	2SA1037AK-T146-R			
Q8322	8-729-026-49	2SA1037AK-T146-R			
Q8323	8-729-026-49	2SA1037AK-T146-R			
Q8324	8-729-026-49	2SA1037AK-T146-R			
Q8326	8-729-230-49	2SC2712-YG			
Q8327	1-801-806-11	TR DTC144EKA			
Q8328	1-801-806-11	TR DTC144EKA			
Q8329	8-729-230-49	2SC2712-YG			
Q8330	8-729-230-49	2SC2712-YG			
Q8331	8-729-230-49	2SC2712-YG			
Q8332	8-729-230-49	2SC2712-YG			
Q8333	8-729-230-49	2SC2712-YG			
Q8334	8-729-230-49	2SC2712-YG			
Q8335	8-729-230-49	2SC2712-YG			
Q8336	8-729-230-49	2SC2712-YG			
Q8345	8-729-230-49	2SC2712-YG			
Q8346	8-729-026-49	2SA1037AK-T146-R			
Q8347	8-729-230-49	2SC2712-YG			
Q8348	8-729-026-49	2SA1037AK-T146-R			
Q8349	8-729-230-49	2SC2712-YG			
Q8350	8-729-026-49	2SA1037AK-T146-R			
Q8351	8-729-230-49	2SC2712-YG			
Q8352	8-729-026-49	2SA1037AK-T146-R			
Q8353	8-729-026-49	2SA1037AK-T146-R			
Q8354	8-729-026-49	2SA1037AK-T146-R			
Q8355	8-729-026-49	2SA1037AK-T146-R			
Q8361	8-729-230-49	2SC2712-YG			
Q8362	8-729-230-49	2SC2712-YG			
Q8363	8-729-230-49	2SC2712-YG			
Q8364	8-729-026-49	2SA1037AK-T146-R			
Q8464	8-729-230-49	2SC2712-YG			
Q8465	8-729-230-49	2SC2712-YG			
Q8466	8-729-230-49	2SC2712-YG			
		<RESISTOR>			
R8101	1-216-022-00	RES-CHIP	75	5%	1/10W
R8208	1-216-295-91	SHORT	0		
R8209	1-216-295-91	SHORT	0		
R8301	1-216-041-00	RES-CHIP	470	5%	1/10W
R8302	1-216-041-00	RES-CHIP	470	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R8303	1-216-021-00	RES-CHIP	68	5%	1/10W
R8304	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8305	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8306	1-216-022-00	RES-CHIP	75	5%	1/10W
R8307	1-216-022-00	RES-CHIP	75	5%	1/10W
R8308	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8309	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8310	1-216-022-00	RES-CHIP	75	5%	1/10W
R8311	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8312	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8313	1-216-022-00	RES-CHIP	75	5%	1/10W
R8314	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8315	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8316	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8317	1-216-022-00	RES-CHIP	75	5%	1/10W
R8318	1-216-022-00	RES-CHIP	75	5%	1/10W
R8319	1-216-022-00	RES-CHIP	75	5%	1/10W
R8320	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8321	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8322	1-216-022-00	RES-CHIP	75	5%	1/10W
R8323	1-216-295-91	SHORT	0		
R8324	1-216-295-91	SHORT	0		
R8325	1-216-295-91	SHORT	0		
R8326	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8327	1-216-295-91	SHORT	0		
R8328	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8329	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8330	1-216-022-00	RES-CHIP	75	5%	1/10W
R8331	1-216-295-91	SHORT	0		
R8332	1-216-295-91	SHORT	0		
R8333	1-216-295-91	SHORT	0		
R8334	1-216-295-91	SHORT	0		
R8335	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8336	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8337	1-216-022-00	RES-CHIP	75	5%	1/10W
R8338	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8339	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8340	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8341	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8342	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8343	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8344	1-216-022-00	RES-CHIP	75	5%	1/10W
R8345	1-216-033-00	RES-CHIP	220	5%	1/10W
R8346	1-216-031-00	RES-CHIP	180	5%	1/10W
R8347	1-216-025-11	RES-CHIP	100	5%	1/10W
R8348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8349	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8350	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8351	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8353	1-216-017-91	RES-CHIP	47	5%	1/10W
R8355	1-216-295-91	SHORT	0		
R8356	1-216-295-91	SHORT	0		
R8357	1-216-017-91	RES-CHIP	47	5%	1/10W
R8358	1-216-017-91	RES-CHIP	47	5%	1/10W
R8361	1-216-017-91	RES-CHIP	47	5%	1/10W
R8363	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8364	1-216-041-00	RES-CHIP	470	5%	1/10W
R8365	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8367	1-216-041-00	RES-CHIP	470	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R8369	1-216-041-00	RES-CHIP	470	5%	1/10W
R8370	1-216-025-11	RES-CHIP	100	5%	1/10W
R8372	1-216-295-91	SHORT	0		
R8373	1-216-295-91	SHORT	0		
R8374	1-216-039-00	RES-CHIP	390	5%	1/10W
R8375	1-216-041-00	RES-CHIP	470	5%	1/10W
R8376	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8377	1-216-025-11	RES-CHIP	100	5%	1/10W
R8378	1-216-033-00	RES-CHIP	220	5%	1/10W
R8379	1-216-033-00	RES-CHIP	220	5%	1/10W
R8380	1-216-025-11	RES-CHIP	100	5%	1/10W
R8381	1-216-025-11	RES-CHIP	100	5%	1/10W
R8382	1-216-033-00	RES-CHIP	220	5%	1/10W
R8383	1-216-033-00	RES-CHIP	220	5%	1/10W
R8384	1-216-025-11	RES-CHIP	100	5%	1/10W
R8385	1-216-025-11	RES-CHIP	100	5%	1/10W
R8386	1-216-025-11	RES-CHIP	100	5%	1/10W
R8388	1-216-031-00	RES-CHIP	180	5%	1/10W
R8389	1-216-033-00	RES-CHIP	220	5%	1/10W
R8395	1-216-033-00	RES-CHIP	220	5%	1/10W
R8396	1-216-033-00	RES-CHIP	220	5%	1/10W
R8399	1-216-025-11	RES-CHIP	100	5%	1/10W
R8400	1-216-025-11	RES-CHIP	100	5%	1/10W
R8405	1-216-033-00	RES-CHIP	220	5%	1/10W
R8406	1-216-033-00	RES-CHIP	220	5%	1/10W
R8407	1-216-033-00	RES-CHIP	220	5%	1/10W
R8408	1-216-033-00	RES-CHIP	220	5%	1/10W
R8409	1-216-295-91	SHORT	0		
R8410	1-216-295-91	SHORT	0		
R8411	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8415	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8417	1-216-025-11	RES-CHIP	100	5%	1/10W
R8418	1-216-025-11	RES-CHIP	100	5%	1/10W
R8419	1-216-017-91	RES-CHIP	47	5%	1/10W
R8420	1-216-017-91	RES-CHIP	47	5%	1/10W
R8421	1-216-295-91	SHORT	0		
R8422	1-216-295-91	SHORT	0		
R8424	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8425	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8426	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8428	1-216-295-91	SHORT	0		
R8429	1-216-295-91	SHORT	0		
R8430	1-216-295-91	SHORT	0		
R8431	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8432	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8433	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8434	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8435	1-216-295-91	SHORT	0		
R8436	1-216-017-91	RES-CHIP	47	5%	1/10W
R8440	1-216-295-91	SHORT	0		
R8441	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8442	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8443	1-216-025-11	RES-CHIP	100	5%	1/10W
R8444	1-216-025-11	RES-CHIP	100	5%	1/10W
R8445	1-216-017-91	RES-CHIP	47	5%	1/10W
R8446	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8447	1-216-025-11	RES-CHIP	100	5%	1/10W
R8448	1-216-025-11	RES-CHIP	100	5%	1/10W
R8449	1-216-025-11	RES-CHIP	100	5%	1/10W
R8450	1-216-089-91	RES-CHIP	47K	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R8451	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8452	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8453	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8454	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8455	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8456	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8457	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8458	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8459	1-216-025-11	RES-CHIP	100	5%	1/10W
R8460	1-216-025-11	RES-CHIP	100	5%	1/10W
R8461	1-216-025-11	RES-CHIP	100	5%	1/10W
R8462	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8463	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8464	1-216-025-11	RES-CHIP	100	5%	1/10W
R8465	1-216-025-11	RES-CHIP	100	5%	1/10W
R8466	1-216-025-11	RES-CHIP	100	5%	1/10W
R8467	1-216-041-00	RES-CHIP	470	5%	1/10W
R8468	1-216-041-00	RES-CHIP	470	5%	1/10W
R8469	1-216-041-00	RES-CHIP	470	5%	1/10W
R8470	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8471	1-216-025-11	RES-CHIP	100	5%	1/10W
R8472	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8473	1-216-025-11	RES-CHIP	100	5%	1/10W
R8474	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8475	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8478	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8479	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8480	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8481	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8482	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8484	1-216-045-00	RES-CHIP	680	5%	1/10W
R8485	1-216-037-00	RES-CHIP	330	5%	1/10W
R8486	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8487	1-216-045-00	RES-CHIP	680	5%	1/10W
R8488	1-216-041-00	RES-CHIP	470	5%	1/10W
R8489	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8490	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8491	1-216-025-11	RES-CHIP	100	5%	1/10W
R8492	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8493	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8494	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8495	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8496	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8497	1-216-025-11	RES-CHIP	100	5%	1/10W
R8498	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8499	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8500	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R8501	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8502	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8503	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8504	1-216-295-91	SHORT	0		
R8507	1-216-025-11	RES-CHIP	100	5%	1/10W
R8508	1-216-025-11	RES-CHIP	100	5%	1/10W
R8511	1-216-041-00	RES-CHIP	470	5%	1/10W
R8512	1-216-017-91	RES-CHIP	47	5%	1/10W
R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8524	1-216-041-00	RES-CHIP	470	5%	1/10W
R8525	1-216-033-00	RES-CHIP	220	5%	1/10W
R8528	1-216-025-11	RES-CHIP	100	5%	1/10W
R8530	1-216-041-00	RES-CHIP	470	5%	1/10W
R8532	1-216-041-00	RES-CHIP	470	5%	1/10W
R8533	1-216-041-00	RES-CHIP	470	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R8536	1-216-025-11	RES-CHIP	100	5%	1/10W
R8538	1-216-041-00	RES-CHIP	470	5%	1/10W
R8540	1-216-041-00	RES-CHIP	470	5%	1/10W
R8541	1-216-039-00	RES-CHIP	390	5%	1/10W
R8544	1-216-041-00	RES-CHIP	470	5%	1/10W
R8547	1-216-295-91	SHORT	0		
R8548	1-216-033-00	RES-CHIP	220	5%	1/10W
R8556	1-216-025-11	RES-CHIP	100	5%	1/10W
R8557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8558	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8560	1-216-025-11	RES-CHIP	100	5%	1/10W
R8561	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8562	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8564	1-216-025-11	RES-CHIP	100	5%	1/10W
R8565	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8566	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8567	1-216-017-91	RES-CHIP	47	5%	1/10W
R8569	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8570	1-216-017-91	RES-CHIP	47	5%	1/10W
R8572	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8573	1-216-017-91	RES-CHIP	47	5%	1/10W
R8575	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R8576	1-216-013-00	RES-CHIP	33	5%	1/10W
R8577	1-216-295-91	SHORT	0		
R8578	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R8579	1-216-295-91	SHORT	0		
R8582	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8584	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8585	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8586	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8587	1-216-295-91	SHORT	0		
R8588	1-216-041-00	RES-CHIP	470	5%	1/10W
R8589	1-216-041-00	RES-CHIP	470	5%	1/10W
R8590	1-216-041-00	RES-CHIP	470	5%	1/10W
R8599	1-247-903-00	CARBON	1M	5%	1/4W
		<CRYSTAL>			
X8301	1-781-612-11	VIBRATOR, CRYSTAL			
X8302	1-781-612-11	VIBRATOR, CRYSTAL			

****

* A-1391-163-A SP BOARD MOUNTED
****

<CAPACITOR>

C3251	1-136-177-00	FILM	1UF	5.00%	50V
C3252	1-126-411-21	ELECT	27UF	20.00%	50V

<CONNECTOR>

CN3251	1-564-506-11	PLUG, CONNECTOR 3P
CN3253	1-564-507-11	PLUG, CONNECTOR 4P

****

VM

REF NO.	PART NO.	DESCRIPTION			
*	A-1342-625-A	VM BOARD MOUNTED **********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C5401	1-126-935-11	ELECT	470UF	20.00%	16V
C5402	1-137-194-81	FILM	0.47UF	5.00%	50V
C5403	1-126-935-11	ELECT	470UF	20.00%	6.3V
C5405	1-126-933-11	ELECT	100UF	20.00%	16V
C5406	1-126-935-11	ELECT	470UF	20.00%	6.3V
C5407	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C5408	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C5409	1-107-649-11	ELECT	2.2UF	20.00%	250V
C5410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5412	1-126-935-11	ELECT	470UF	20.00%	16V
C5413	1-107-648-91	ELECT	100UF	20.00%	160V
C5415	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C5418	1-107-638-11	ELECT	33UF	20.00%	160V
		<CONNECTOR>			
CN5401 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
CN5402	1-764-334-11	PLUG, CONNECTOR 11P			
		<DIODE>			
D5400	8-719-911-19	1SS119-25			
D5401	8-719-510-02	D1NS4			
D5402	8-719-911-19	1SS119-25			
D5403	8-719-911-19	1SS119-25			
D5404	8-719-911-19	1SS119-25			
D5405	8-719-110-56	RD22ES-B1			
D5406	8-719-110-56	RD22ES-B1			
		<COIL>			
L5400	1-412-525-31	INDUCTOR	10UH		
		<TRANSISTOR>			
Q5400	8-729-119-78	2SC2785-HFE			
Q5401	8-729-119-78	2SC2785-HFE			
Q5402	8-729-119-78	2SC2785-HFE			
Q5403	8-729-119-78	2SC2785-HFE			
Q5404	8-729-119-76	2SA1175-HFE			
Q5405	8-729-119-76	2SA1175-HFE			
Q5406	8-729-045-05	2SA2005			
Q5407	8-729-045-04	2SC5511			
		<RESISTOR>			
R5401	1-249-425-11	CARBON	4.7K	5%	1/4W
R5402	1-249-415-11	CARBON	680	5%	1/4W
R5403	1-247-739-11	CARBON	100	5%	1/2W
R5404	1-249-418-11	CARBON	1.2K	5%	1/4W
R5406	1-249-425-11	CARBON	4.7K	5%	1/4W
R5407	1-249-399-11	CARBON	33	5%	1/4W
R5408	1-247-807-31	CARBON	100	5%	1/4W
R5409	1-249-409-11	CARBON	220	5%	1/4W
R5410	1-249-401-11	CARBON	47	5%	1/4W
R5411	1-249-401-11	CARBON	47	5%	1/4W
R5412	1-249-429-11	CARBON	10K	5%	1/4W
R5413	1-249-414-11	CARBON	560	5%	1/4W
R5414	1-249-432-11	CARBON	18K	5%	1/4W
R5415	1-247-739-11	CARBON	100	5%	1/2W
R5416	1-249-385-11	CARBON	2.2	5%	1/4W
R5417	1-249-432-11	CARBON	18K	5%	1/4W
R5418	1-249-414-11	CARBON	560	5%	1/4W
R5419	1-249-421-11	CARBON	2.2K	5%	1/4W
R5420	1-249-421-11	CARBON	2.2K	5%	1/4W
R5421	1-249-385-11	CARBON	2.2	5%	1/4W
R5422	1-249-405-11	CARBON	100	5%	1/4W
R5423	1-215-915-11	METAL OXIDE	470	5%	3W
R5424	1-249-395-11	CARBON	15	5%	1/4W
R5425	1-249-401-11	CARBON	47	5%	1/4W
R5427	1-249-395-11	CARBON	15	5%	1/4W

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ACCESSORIES AND PACKING MATERIALS
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	1-765-167-41	CABLE, COAXIAL (WITH (F) PLUG)
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
*	4-055-673-01	SHEET, PROTECTION
*	4-081-299-01	BAG, PROTECTION
*	4-084-494-01	CUSHION (UPPER)
*	4-084-495-01	CUSHION (LOWER)
	4-084-931-01	INDIVIDUAL CARTON
*	4-396-077-01	JOINT
	4-079-895-61	MANUAL, INSTRUCTION
	4-392-003-01	BAND, HOLD
	4-392-004-11	CLIP
	4-084-491-02	TRAY

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BATTERY COVER REMOTE COMMANDER
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	1-418-824-11	REMOTE COMMANDER (RM-958)
	4-074-721-01	BATTERY COVER REMOTE COMMANDER

Sony Corporation
Sony Technology Malaysia Sdn. Bhd.
Visual Products General Area

9-872-261-01

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